WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. WRS Contractor CompuChem Laboratories Contract No. Platinum
Lab XXX Medium

	[Volatile]			[Semi-Volatile]							[Pesticide]
SMO Traffic No.	Toluene D8 (86-119)	BFB (85-121)	1,2 Dichloro Ethane-D4 (77-120)	Nitro Benzene-D5 (41-120)	2-Fluoro Biphenyl (44-119)	Terphenyl D14- (33-128)	D10-Pyrene (Lab Optional)	Phenol-D5 (15-103)	2-Fluoro- Phenol (23-121)	2,4,6,Tribromo Phenol (10-130)	Dibutyl Chlorendate (48-136)**
52237-B	102	100	93	NR	NR	NR	NR	NR	NR	NR	NR
52237-B	NR	NR	NR	71	96	99	100	35	48	98	NR
52237-B	98	101	93	NR	NR	NR	NR	NR	NR	NR	NR
52237-D	NR	NR	NR	81	102	103	106	30	40	84	NR
52237-E	100	100	95	NR	NR	NR	NR	NR	NR	NR	NR
52237-E	NR	NR	NR	83* 64	107* 96	112* 109	111* 108	11* 24	10* 36	55 114	NR
52237-G	101	105	97	NR	NR	NR	NR	NR	NR	NR	NR
52237-G	NR	NR	NR	76	103	115	117	44	57	105	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 12; outside of QC limits
Semi-Volatile 4 out of 24; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

Form II Surrogate Percent Recovery Summary (water)

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. URS Contractor CompuChem Laboratories Contract No. Platinum
Lou XXX Medium

	Volatile				Semi-Volatile							Pesticide
SMO Traffic No.	Toluene D8 (86-119)	BFB (85-121)	1,2 Dichloro Ethane-D4 (77-120)	Nitro Benzene-D5 (41-120)	2-Fluoro Biphenyl (44-119)	Terphenyl D14- (33-128)	D10-Pyrene (Lab Optional)	Phenol-D5 (15-103)	2-Fluoro-Phenol (21-121)	2,4,6,Tribromo Phenol (10-130)	Dibutyl Chlorendate (48-136)**
52237-E-MS	96	99	95	NR	NR	NR	NR	NR	NR	NR	NR
52237-E-MSD	99	101	95	NR	NR	NR	NR	NR	NR	NR	NR
66522-B	104	99	99	NR	NR	NR	NR	NR	NR	NR	NR
52237-E-MS	NR	NR	NR	106 96	103 102	109 108	106 105	26 27	26 29	85 83	NR
52237-E-MSD	NR	NR	NR	107 92	100 99	112 116	114 118	28 28	30 31	81 79	NR
66783-B	NR	NR	NR	97	106	109	112	41	51	69	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

Volatiles: 0 out of 9; outside of QC limits
Semi-Volatile 0 out of 18; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

**ADVISORY LIMITS ONLY

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (water)

WATER SURROGATE PERCENT RECOV... SUMMARY

: No. URS Contractor COMPUCHEM LABORATORIES Contract No. Platinum

	[Volatile							Semi-Volatile					Pesticide]
SMO Traffic No.	Toluene D8 (86-119)	BFB (85-121)	1,2 Dichlord Ethane-D4 (77-120)	Nitro Benzene-D5 (41-120)	2-Fluoro Biphenyl (44-119)	Terphenyl D14- (33-128)		D10-Pyrene (Lab Optional)	Phenol-D5 (15-103)	2-Fluoro-Phenol (23-121)	2,4,6,Tribromo Phenol (10-130)	Dibutyl Chlorendate (48-136) **
8851112A11	88	94	87	NR	NR	NR		NR	NR	NR	NR	NR
8851126B12	94	98	95	NR	NR	NR		NR	NR	NR	NR	NR
												1
106957BS	NR	NR	NR	59	102	116		112	28	47	61	NR

LUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

DVISORY LIMITS ONLY

Volatiles: 0 out of 6 ; outside of QC limits
Semi-Volatiles: 0 out of 6; outside of QC limits
Pesticides: ___ out of ___; outside of QC limits

ments:

FORM II

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. URS Contractor Compuchem Contract No. _____

FRACTION	COMPOUND	CONC SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
VOA SMO SAMPLE NO. _____	1,1 Dichloroethene	50	5.0U	51	102	52	104	2	14	61-145
	Trichloroethene	50	5.0U	49	96	49	98	0	14	71-120
	Chlorobenzene	50	5.0U	51	102	51	102	0	13	75-130
	Toluene	50	5.0U	49	98	53	106	8	13	76-125
	Benzene	50	5.0U	54	108	54	106	0	11	76-127
B/N SMO SAMPLE NO. 5223J-E	1,2,4-Trichlorobenzene	50 25	200U	25	99*	22	88	12	28	39-98
	Acenaphthene	50 25	200U	25	99	24	95	4	31	46-118
	2,4 Dinitrotoluene	50 25	200U	19	76	20	82	7	38	24-96
	Di-n-Butylphthalate	50 25	200U	22	89	21	85	5	40	11-117
	Pyrene	50 25	200U	25	101	26	106	6	31	26-127
	N-Nitroso-Di-n-Propylamine	50 25	200U	23	90	24	97	8	38	41-116
	1,4 Dichlorobenzene	50 25	200U	24	96	24	95	1	28	36-97
ACID SMO SAMPLE NO. 5223J-E	Pentachlorophenol	100 50	1000U	92	84	92	83	2	50	9-103
	Phenol	100 50	200U	10	20	10	20	5	42	12-89
	2-Chlorophenol	100 50	200U	28	56	27	54	3	40	27-123
	4-Chloro-3-Methylphenol	100 50	200U	25	99	26	51	4	42	23-97
	4-Nitrophenol	100 50	1000U	94	98*	99	74	13	50	10-80
PEST SMO SAMPLE NO. _____	Lindane	.2							15	56-123
	Heptachlor	.2							20	40-131
	Aldrin	.2							22	40-120
	Dieldrin	.5							18	52-126
	Endrin	.5							21	56-121
	4,4'-DDT	.5							27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5 ; outside QC limits
B/N 0 out of 7 ; outside QC limits
ACID 0 out of 5 ; outside QC limits
PEST ____ out of 6 ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/N 1 out of 14 ; outside QC limits
ACID 1 out of 10 ; outside QC limits
PEST ____ out of 12 ; outside QC limits

Comments: _____

REAGENT BLANK SUMMARY

Case No. URS Contractor Compu Chem Contract No.

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	BLK. ID	CAS NUMBER	COMPOUND (NBS, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
GH066783	11/16	SV	L	L	A16	108-87-2	Cyclo Alkane	10 U	UG/L	—
CN066522	11/27	VOA	Liquid	Low	C12	75-09-2	Methylene Chloride	1.0J	ug/L	5.
"	"	"	"	"	"	67-64-1	Acetone	11 J	"	10.

Comments:

REAGENT BLANK SUMMARY

INSTRUMENT BLANK

Case No. UKS Contractor COMPUCHEM Contract No. Platinum

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	SAMP. ID	CAS NUMBER	COMPOUND (NON-TIC OR SURROGATE)	CONC.	UNITS	Q
CB851112A11	11-12-85	VOA	liquid	Low	A11	67-64-1	Acetone	1.8 J	ug/L	10
CB851126B12	11-26-85	VOA	liquid	Low	B12	75-09-2	Methylene Chloride	2.1 J	ug/L	5.

Comments:

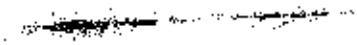
Case No. VRS Contractor CompuChem Contract No. 68-01-6866

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (NSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
BH069657	12-4-85	SV	LIQ.	L	B15	108-87-2	Dl Kane	11 J	ug/L	NR

Comments:

FORM IV

4/84



GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

CASE NO: ulbs CONTRACTOR: CompuChem Labs CONTRACT: 68-01-6866 68-01-7017

INSTRUMENT ID: 16 DATE: 11/16/85 TIME: 10:48

LAB ID: BH851116A16 DATA RELEASE AUTHORIZED BY: IO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	32.21	1
68	Less than 2.0% of mass 69	0.18	(0.43)
69	Mass 69 relative abundance	41.14	1
70	Less than 2.0% of mass 69	0.54	(1.31)
127	40.0 - 60.0% of mass 198	43.09	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	7.08	
275	10.0 - 30.0% of mass 198	17.12	
365	Greater than 1.00% of mass 198	1.79	
441	Present, but less than mass 443	8.34	
442	Greater than 40.0% of mass 198	45.65	2
443	17.0 - 23.0% of mass 442	8.29	(18.15)

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	BH851116A16	11/16/85	10:48
SONG STD	HU851116A16	11/16/85	12:16
CHROM CHEK	GARRCHEKA16	11/16/85	12:33
HA777	GH067026A16	11/16/85	14:25
HA778	GH067031A16	11/16/85	15:00
HA780	GH067033A16	11/16/85	15:43
HA781	GH067034A16	11/16/85	16:21
HA789	GH067035A16	11/16/85	16:55
BLANK	GH066783A16	11/16/85	17:51

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

68-01-6866

CASE NO: UKS CONTRACTOR: Denp_Chem Labs CONTRACT: 68-01-7017

[illegible] DATE: 11/17/85 TIME: 5:39

Lab ID: DH851117A16 DATA RELEASE AUTHORIZED BY: IO [illegible]

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	7.0 - 80.0% of mass 198	27.15	1
68	Less than 2.0% of mass 69	0.00	(0.00)
69	Mass 69 relative abundance	56.32	1
70	Less than 2.5% of mass 69	0.47	(0.83)
127	40.0 - 60.0% of mass 198	55.10	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	7.55	
275	10.0 - 30.0% of mass 198	16.06	
365	Greater than 1.00% of mass 198	1.05	
441	Present but less than mass 443	7.73	
442	Greater than 40.0% of mass 443	44.33	2
443	17.0 - 23.0% of mass 442	8.37	(18.87)

1 Value in parentheses is % mass 69
2 Value in parentheses is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	DH851117A16	11/17/85	5:39
EVALCHEK	DH851117A17	11/17/85	6:25
50NGSTD	DH851117A18	11/17/85	7:30
COMM	DH851117A19	11/17/85	9:19
COMM	GH0665[illegible]A15	11/17/85	10:15
COMM	GH0665[illegible]A16	11/17/85	10:58
COMM	GH0665[illegible]A15	11/17/85	11:38
COMM	GH0665[illegible]A16	11/17/85	12:18
COMM	GH0665[illegible]A15	11/17/85	13:06
BLANK	GH066956A16	11/17/85	13:51
BLANK	GH066957A16	11/17/85	14:34
DC477MSD	GH066683A16	11/17/85	15:26
DC477	GH066682A16	11/17/85	16:03

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

68-01-6866

CASE NO: _____ CONTRACTOR: CompuChem Labs CONTRACT: 68-01-7017

INSTRUMENT ID: 15 DATE: 12/04/85 TIME: 7:04

LAB ID: DJB512C4C15 DATA RELEASE AUTHORIZED BY: SC _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	46.16	1
68	Less than 2.0% of mass 69	0.00	(0.00)
69	Mass 69 relative abundance	54.33	1
70	Less than 2.0% of mass 69	0.36	(0.66)
127	40.0 - 60.0% of mass 198	53.13	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	6.74	
275	10.0 - 30.0% of mass 198	17.31	
365	Greater than 1.00% of mass 198	1.75	
441	Present, but less than mass 443	9.04	
442	Greater than 40.0% of mass 198	68.17	2
443	17.0 - 23.0% of mass 442	11.15	(16.54)

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	DJB512C4C15	12/04/85	7:04
SBMS67D	HSB512C4C15	12/04/85	7:16
CHROMCHK	BCB512C4B15	12/04/85	6:57
COMM	GH0669086A15	12/04/85	9:28
COMM	GH0c999967	12/04/85	10:17
COMM	GH0675434A15	12/04/85	11:30
COMM	GH0675824A15	12/04/85	12:28
COMM	GH0669033A15	12/04/85	13:43
COMM	GH0668036A15	12/04/85	15:25
BD732	GH0678178A15	12/04/85	16:03
BD733MS	GH0668E6_B15	12/04/85	16:48
BLANK	GH0679578A15	12/04/85	17:20
COMM	GH0665138A15	12/04/85	18:02
BD733MSD	GH0669078A15	12/04/85	18:49

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

68-01-6866

CAS NO: _____ CONTRACTOR: CompuChem Labs CONTRACT: 68-01-7077

INSTRUMENT ID: 15 DATE: 12/04/85 TIME: 21:46

LAB ID: DI651204B15 DATA RELEASE AUTHORIZED BY: JPM _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	36.67	1
68	Less than 2.0% of mass 69	0.32	(0.73)
69	Mass 69 relative abundance	43.30	1
70	Less than 2.0% of mass 69	0.00	(0.00)
127	40.0 - 60.0% of mass 198	47.48	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	6.42	
275	10.0 - 30.0% of mass 198	17.38	
365	Greater than 1.00% of mass 198	1.41	
441	Present, but less than mass 443	6.40	
443	Greater than 40.0% of mass 198	48.93	2
442	[illegible]	0.13	[illegible]

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THE PERFORMANCE CODE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	DI651204B15	12/04/85	21:46
50NG STD	HG8512@4B15	12/04/85	22:01
CHROM CHEK	SCB51204B15	12/04/85	22:52
COMM	GH[illegible]3C15	12/04/85	23:24
COMM	GH@6691@C15	12/05/85	: 8
COMM	GH2c7992C15	12/05/85	:52
COMM	GH@68000C15	12/05/85	1:24
COMM	GH@67992C15	12/05/85	1:56
COMM	GH@68004C15	12/05/85	2:36
COMM	GH@68005C15	12/05/85	3:05
COMM	GH@68007C15	12/05/85	3:53
COMM	GH@68008C15	12/05/85	4:32
COMM	GH@68009C15	12/05/85	5:07
COMM	GH@68010C15	12/05/85	5:39
COMM	GH@68011C15	12/05/85	6:21
COMM	GHC66012C15	12/05/85	6:55
COMM	GH@66013C15	12/05/85	7:31

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

Case No. UKS Contractor COMPUCHEM® LABORATORIES, INC. Contract No. 68-01-6866 -7017 -8666

Instrument ID C1 Date 11/12/85 Time 9:41

Lab ID COMPUCHEM Data Release Authorization By:

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	24.3
75	30.0 - 60.0% of the base peak	43.9
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	6.53
173	less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	52.1
175	5.0 - 9.0% of mass 174	3.19 (6.12)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	52.0 (99.8)[1]
177	5.0 - 9.0% of mass 176	3.22 (6.19)[2]

[1]Value in parenthesis is % mass 174
[2]Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	CG85111 2A11	11/12/85	9:41	891	115	
	CC85111 2A11		9:56			
	CT85111 2A11		10:42			
	CB85111 2A11		11:48			
	CU85111 2A11		12:34	633		
	CV85111 2A11		13:21	714		
	CW85111 2A11		13:59	633		
	CX85111 2A11		15:03	633		
	CS85111 2B11		15:52	890		
52237-E	CN066512B11		16:59			
52237-D	CN066514B11		17:48			
52237-C	CN066516B11		18:34			
SS#1	CN066505B11		19:13			
SS#2	CN066506B11		19:59			
52237-A	CN066518B11		20:41			
52237-B	CN066520B11		21:20			

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

-7017
-6866

Case No. WLS Contractor COMPUCHEM LABORATORIES, INC. Contract No. 68-01-6866

Instrument ID [illegible] Date [illegible] Time [illegible]

Lab ID COMPUCHEM Data Release Authorization By: [illegible]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	16.7
75	30.0 - 60.0% of the base peak	[illegible]
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	[illegible]
173	less than 1.0% of the base peak	
174	Greater than 50.0% of the base peak	[illegible]
175	5.0 - 9.0% of mass 174	[illegible]
176	Greater than 95.0%, but less than 101.0% of mass 174	[illegible]
177	5.0 - 9.0% of mass 176	[illegible]

(Value in parenthesis is % mass 174
(Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB51126B12	11/26/85	21:44	890	126	
	CS851126B12		22:09			
	CB851126B12		23:01			
HB #1	CN067842B12		23:48			
HB #2	CN067843C12	11/27/85	0:35	812		
HB 81	CN068810C12		1:19			
HB 81	CN066522C12		2:02			
HB 81	CN067687C12		2:53			
Q0661	CN069090C12		3:46			
Q0662	CN069099C12		4:37			
SS of Q0662	CN069101C12		5:16			
SS of Q0662	CN069102C12		5:58			
Q0665	CN069106C12		6:53			
Q0666	CN069116C12		7:36			
Q0667	CN069117A12		8:30	577		
Q0668	CN069118A12		9:21			
	CC851127A12					

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR VOLATILE HSL COMPOUNDS

VOLATILE COMPOUNDS DETECTION LIMIT STUDY - AMENDED JANUARY 15, 1985

NAME	MEAN	STD. DEV.	3 x STD. DEV (Converted to ug/L) Inst. DET. Limit
Bromochloromethane (IS)	-----	--------	ug/L
Chloromethane	105874	19930	28
Bromomethane	149468	16800	17
Vinyl Chloride	124730	14679	18
Chloroethane	64814	5398	12
Methylene Chloride	121772	14054	17
Acetone (2-Propanone)	22417	1979	13
Carbon Disulfide	355229	51739	22
1,1-Dichloroethylene	116890	14657	19
1,1-Dichloroethane	216032	26269	18
Trans -1,2 -Dichloroethylene	111789	15069	20
Chloroform	261539	29277	17
1,2-Dichloroethane	181477	16957	14
1,4 Difluorobenzene (Internal Std)	------	-----	--
2-Butanone	12072	1374	17
1,1,1-Trichloroethane	195419	23281	18
Carbon Tetrachloride	201317	17824	13
Vinyl Acetate	199598	23864	18
Bromodichloromethane	230138	26399	17
1,2-Dichloropropane	158286	16219	15
Trans-1,3-Dichloropropene	196807	24068	18
Trichloroethylene	173661	15429	13
Chlorodibromomethane	195098	15979	12
1,1,2-Trichloroethane	137818	11975	13
Benzene	381933	26886	10
CIS-1,3-Dichloropropene	164184	14234	13
2-Chloroethyl Vinyl Ether	87902	12117	21
Bromoform	130767	8839	10
D5 Chlorobenzene (Internal Std.)	------	-------	--
2-Hexanone	114919	13303	17
4-Methyl-2-Pentanone	82333	9210	17
Tetrachloroethene	158458	14255	13
1,1.2,2-Tetrachloroethane	186826	15490	12
Toluene	247542	27182	16
Chlorobenzene	338123	25840	11
Ethylbenzene	173342	13736	12
Styrene	366700	34503	14
M-Xylene	230196	21856	14
O- & P-Xylene	451397	42601	28
D4-1,2-Dichloroethane	------	-------	--
Bromofluorobenzene	------	-------	--
D8-Toluene	------	-------	--

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR SEMI-VOLATILE HSL COMPOUNDS, JUNE 19, 1985

COMPOUND NAME	HG850619C15	HG850519B15	HI850620A15	AVERAGE	SD	DET. LIMIT
N-NITROSODIMETHYLAMINE	67.46	52.87	53.49	57.94	8.25	24.75
PHENOL	52.51	46.51	52.98	50.67	3.61	10.82
ANILINE	47.10	37.93	37.79	40.94	5.33	16.00
BIS (2-CHLOROETHYL) ETHER	48.75	44.43	47.55	46.91	2.23	6.69
2-CHLOROPHENOL	49.90	48.05	51.29	49.75	1.62	4.87
1,3-DICHLOROBENZENE	52.38	31.54	53.89	45.94	12.49	37.47
1,4-DICHLOROBENZENE	51.69	49.51	50.66	50.62	1.09	3.28
BENZYL ALCOHOL	48.86	42.40	47.96	46.40	3.50	10.50
1,2-DICHLOROBENZENE	47.88	46.67	48.21	47.59	.81	2.44
2-METHYLPHENOL	45.29	42.09	47.29	44.89	2.62	7.87
BIS (2-CHLOROISOPROPYL) ETHER	53.92	43.33	42.35	46.53	6.41	19.24
4-METHYLPHENOL	48.18	44.85	53.08	48.70	4.14	12.41
N-NITROSO-DI-N-PROPYLAMINE	44.85	36.62	45.98	42.49	5.11	15.32
HEXACHLOROETHANE	42.30	40.48	45.68	42.82	2.64	7.93
NITROBENZENE	38.23	33.40	38.94	36.86	3.01	9.04
ISOPHORONE	46.18	38.13	43.16	42.49	4.06	12.19
2-NITROPHENOL	46.31	48.08	47.33	47.24	.89	2.67
2,4-DIMETHYLPHENOL	52.89	49.60	51.39	51.29	1.65	4.94
BENZOIC ACID	25.41	17.60	29.46	24.16	6.03	18.10
BIS (2-CHLOROETHOXY)METHANE	56.58	46.96	51.52	51.69	4.81	14.43
2,4-DICHLOROPHENOL	51.22	51.29	51.44	51.32	.11	.34
1,2,4-TRICHLOROBENZENE	55.15	56.66	52.78	54.86	1.96	5.87
NAPTHALENE	54.36	52.02	54.19	53.52	1.31	3.92
4-CHLOROANILINE	52.32	42.44	45.63	46.80	5.04	15.13
HEXACHLOROBUTADIENE	48.21	50.85	50.14	49.73	1.37	4.10
4-CHLORO-3-METHYLPHENOL	41.22	37.90	45.26	41.46	3.68	11.05
2-METHYLNAPTHALENE	48.05	46.50	46.51	47.02	.89	2.67
HEXACHLOROCYCLOPENTADIENE	35.03	52.63	47.12	44.92	9.00	27.01
2,4,6-TRICHLOROPHENOL	47.94	51.55	53.21	50.90	2.69	8.08
2,4,5-TRICHLOROPHENOL	50.73	51.55	58.29	53.52	4.15	12.44
2-CHLORONAPTHALENE	58.61	57.70	59.29	58.53	.80	2.39
2-NITROANILINE	41.78	29.35	38.61	36.58	6.46	19.38
DIMETHYL PHTHALATE	54.96	45.47	56.75	52.39	6.06	18.19
ACENAPHTHYLENE	57.95	52.70	59.07	56.57	3.40	10.21
3-NITROANILINE	44.39	37.85	49.69	43.98	5.93	17.79
ACENAPHTHENE	52.74	49.46	53.38	51.86	2.10	6.31
2,4-DINITROPHENOL	51.24	46.87	66.20	54.77	10.13	30.40
4-NITROPHENOL	42.32	47.57	58.24	49.38	8.11	24.33
DIBENZOFURAN	51.13	50.13	53.59	51.62	1.78	5.34
2,4-DINITROTOLUENE	50.64	30.86	55.93	45.81	13.22	39.65
2,6-DINITROTOLUENE	53.84	52.86	59.77	55.49	3.73	11.20
DIETHYL PHTHLATE	48.50	41.33	52.21	47.35	5.53	16.59
4-CHLOROPHENYL PHENYL ETHER	60.00	58.62	63.26	60.63	2.38	7.15
FLUORENE	54.43	52.99	60.01	55.81	3.71	11.12
4-NITROANILINE	42.33	26.94	35.20	34.82	7.70	23.10

(cont'd)

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR SEMI-VOLATILE HSL COMPOUNDS, JUNE 19, 1985

4,6-DINITRO-2-METHYLPHENOL	27.94	30.51	44.55	34.33	8.94	26.83
N-NITROSODIPHENYLAMINE	58.27	49.58	62.41	56.75	6.55	19.65
4-BROMOPHENYL PHENYL ETHER	59.56	61.91	69.33	63.60	5.10	15.29
HEXACHLOROBENZENE	63.39	61.52	70.78	65.23	4.89	14.68
PENTACHLOROPHENOL	48.23	45.84	39.21	44.43	4.67	14.01
PHENANTHRENE	54.58	50.49	60.27	55.12	4.91	14.73
ANTHRACENE	51.69	49.46	59.31	53.49	5.17	15.50
DI-N-BUTYL PHTHALATE	48.57	37.41	52.02	46.00	7.63	22.90
FLUORANTHENE	47.84	40.84	48.22	45.63	4.15	12.46
BENZIDINE	50.83	--	--	16.94	29.35	88.05
PYRENE	61.13	62.82	63.68	62.55	1.30	3.89
BUTYLBENZYL PHTHALATE	33.54	30.74	42.0	35.43	5.87	17.62
3,3 DICHLOROBENZIDINE	46.26	19.41	39.82	35.16	14.01	42.04
BENZO(A)ANTHRACENE	52.54	50.75	52.08	51.79	.93	2.79
BIS(2-ETHYLHEXYL) PHTHALATE	46.86	42.82	50.92	46.87	4.05	12.15
CHRYSENE	54.14	48.36	52.70	51.73	3.01	9.04
DI-N-OCTYL PHTHALATE	49.50	41.56	50.23	47.10	4.81	14.43
BENZO(B)FLUORANTHENE	61.94	59.52	62.04	61.17	1.43	4.29
BENZO(K)FLUORANTHENE	61.94	59.52	62.04	61.17	1.43	4.29
BENZO(A)PYRENE	58.88	30.68	59.53	49.69	16.47	49.42
INDENO(1,2,3-C,D)PYRENE	62.71	62.30	86.82	70.61	14.04	42.11
DIBENZO(A,H)ANTHRACENE	68.05	65.33	90.91	74.77	14.05	42.14
BENZO(G,H,I)PERYLENE	62.42	63.53	88.56	71.50	14.78	44.34

Initial Calibration Data
Volatile HSL Compounds

-- No: 445
actor: CompuChem Laboratories
ntract No. Platinum

Instrument ID : OWA A11
Calibration Date : 11/12/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CX851112A11	CT851112A11	CW851112A11	CU851112A11	CU851112A11			
Compound	RF(20)	RF(50)	RT(100)	RT(150)	RT(200)	Avg RT	%RSD	CCC * SPCC **
METHYL CHLORIDE	2.839	1.673	2.242	2.221	2.032	2.201	19.234	* *
METHYL BROMIDE	2.628	1.895	2.150	2.134	2.023	2.166	12.632	
VINYL CHLORIDE	2.926	1.916	2.356	2.264	2.214	2.335	15.812	*
CHLOROETHANE	1.299	.964	1.037	1.055	.981	1.067	12.638	
METHYLENE CHLORIDE	1.921	1.632	1.590	1.633	1.495	1.654	9.630	
ACETONE (2-PROPANONE)	.530	.381	.436	.357	.356	0.412	17.695	
CARBON DISULFIDE	5.020	4.617	5.162	4.958	4.830	4.918	4.189	
1,1-DICHLOROETHYLENE	1.604	1.342	1.396	1.473	1.382	1.439	7.191	*
1,1-DICHLOROETHANE	3.423	2.900	3.045	3.152	2.889	3.082	7.129	* *
1,2-TRANS-DICHLOROETHYLENE	1.619	1.389	1.415	1.493	1.410	1.464	6.336	
CHLOROFORM	3.882	3.385	3.309	3.382	3.190	3.429	7.741	*
1,2-DICHLOROETHANE	2.493	2.168	2.225	2.239	2.191	2.253	4.865	
2-BUTANONE	.041	.028	.034	.033	.033	0.034	14.250	
1,1,1-TRICHLOROETHANE	.587	.496	.512	.540	.503	0.528	7.020	
CARBON TETRACHLORIDE	.543	.471	.496	.540	.510	0.512	5.925	
ACETATE	.891	.754	.963	.946	.938	0.899	9.514	
DICHLOROBROMOMETHANE	.843	.759	.768	.822	.751	0.789	5.227	
1,2-DICHLOROPROPANE	.561	.485	.506	.533	.496	0.516	5.980	*
TRANS-1,3-DICHLOROPROPYLENE	.289	.236	.265	.273	.261	0.265	7.350	
TRICHLOROETHYLENE	.471	.407	.405	.428	.403	0.423	6.851	
CHLORODIBROMOMETHANE	.610	.568	.602	.645	.625	0.610	4.702	
1,1,2-TRICHLOROETHANE	.448	.398	.403	.413	.393	0.411	5.302	
BENZENE	1.237	1.077	1.082	1.140	1.073	1.122	6.231	
CIS-1,3-DICHLOROPROPYLENE	.862	.766	.849	.902	.853	0.845	5.885	
2-CHLOROETHYLVINYL ETHER	.323	.292	.299	.315	.299	0.306	4.266	
BROMOFORM	.357	.325	.363	.380	.368	0.359	5.757	* *
2-HEXANONE	.526	.452	.496	.472	.451	0.479	6.659	
4-METHYL-2-PENTANONE	.401	.286	.342	.305	.300	0.327	14.245	
TETRACHLOROETHYLENE	.474	.398	.401	.425	.401	0.420	7.675	
1,1,2,2-TETRACHLOROETHANE	.789	.596	.639	.639	.597	0.652	12.184	* *
TOLUENE	.824	.710	.706	.738	.692	0.734	7.242	*
CHLOROBENZENE	1.129	.941	.937	.975	.903	0.977	9.082	* *
ETHYLBENZENE	.511	.420	.424	.438	.402	0.439	9.597	*
STYRENE	1.038	.987	1.005	.973	.906	0.982	4.985	
TOTAL XYLENES	.596	.568	.572	.556	.537	0.566	3.847	

Response Factor (subscript is the amount of ug/L)
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Volatile HSL Compounds

Case No: UES
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : GWA #12
Calibration Date : 10/24/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CW851024B12	CS851024B12	CD851024B12	CU851024B12	CT851024B12			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
Chloromethane	.774	.928	.886	.942	.817	0.869	8.293	**
Bromomethane	1.346	1.347	1.363	1.291	1.135	1.297	7.266	
Vinyl Chloride	.976	1.035	1.050	.979	.929	0.994	4.925	*
Chloroethane	.542	.545	.546	.500	.486	0.523	5.491	
Methylene Chloride	1.679	1.404	1.335	1.354	1.179	1.390	13.075	
Acetone	.306	.300	.273	.282	.281	0.288	4.883	
Carbon Disulfide	4.616	4.114	4.194	3.840	3.725	4.098	8.482	
1,1-Dichloroethene	1.588	1.430	1.365	1.307	1.241	1.387	9.537	*
1,1-Dichloroethane	2.416	2.223	2.141	2.059	1.980	2.164	7.752	**
Trans-1,2-Dichloroethene	1.627	1.475	1.402	1.341	1.285	1.426	9.326	
Chloroform	2.817	2.561	2.392	2.301	2.215	2.457	9.706	*
1,2-Dichloroethane	1.535	1.442	1.371	1.344	1.302	1.399	6.547	
2-Butanone	.032	.030	.029	.029	.029	0.030	4.634	
1,1,1-Trichloroethane	.431	.406	.382	.375	.356	0.391	7.273	
Carbon Tetrachloride	.423	.398	.376	.373	.360	0.386	6.372	
Vinyl Acetate	.527	.488	.497	.479	.485	0.495	3.884	
Bromodichloromethane	.561	.527	.502	.496	.474	0.512	6.304	
1,2-Dichloropropane	.440	.407	.382	.369	.351	0.390	8.915	*
Trans-1,3-Dichloropropene	.247	.235	.226	.228	.221	0.231	4.304	
Trichloroethene	.484	.438	.413	.401	.396	0.426	8.457	
Dibromochloromethane	.438	.426	.418	.420	.403	0.421	2.998	
1,1,2-Trichloroethane	.410	.365	.333	.320	.305	0.347	12.141	
Benzene	.977	.858	.760	.712	.687	0.799	14.907	
cis-1,3-Dichloropropene	.623	.504	.352	.543	.526	0.566	6.795	
2-Chloroethylvinylether	.169	.176	.171	.180	.179	0.173	4.746	
Bromoform	.265	.280	.280	.294	.293	0.282*	4.199	**
4-Methyl-2-Pentanone	.415	.415	.404	.392	.403	0.406	2.363	
2-Hexanone	.293	.257	.243	.248	.246	0.257	8.027	
Tetrachloroethene	.401	.364	.338	.336	.331	0.354	8.235	
1,1,2,2-Tetrachloroethane	.719	.660	.612	.590	.570	0.629	9.231	**
Toluene	.760	.690	.645	.611	.585	0.650	10.524	*
Chlorobenzene	1.025	.921	.865	.829	.803	0.889	9.922	**
Ethylbenzene	.552	.489	.453	.435	.418	0.469	11.270	*
Styrene	1.294	1.116	1.096	1.025	1.007	1.105	9.946	
TOTAL XYLENES	.691	.597	.581	.544	.536	0.590	10.505	

F_{xx} Response Factor (subscript is the amount of ug/L)
$\bar{F}$ - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GWA #15
Calibration Date : 12/03/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MN851203C15	MW851203C15	MM851203C15	MR851203C15	ML851203C15			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-Nitrosodimethylamine	1.699	1.809	1.905	1.912	2.079	1.881	7.466	
Phenol	2.513	2.803	2.684	2.714	2.700	2.683	3.924	*
Aniline	1.353	1.786	1.833	1.970	1.602	1.709	13.970	
bis(-2-Chloroethyl)Ether	2.303	2.306	2.329	2.567	2.603	2.437	5.670	
2-Chlorophenol	1.583	1.609	1.640	1.626	1.616	1.615	1.321	
1,3-Dichlorobenzene	1.678	1.583	1.625	1.520	1.635	1.608	3.702	
1,4-Dichlorobenzene	1.699	1.705	1.648	1.590	1.582	1.645	3.553	*
Benzyl Alcohol	.943	1.107	1.045	1.124	1.147	1.073	7.627	
1,2-Dichlorobenzene	1.528	1.512	1.463	1.404	1.473	1.476	3.285	
2-Methylphenol	1.313	1.457	1.388	1.429	1.449	1.407	4.193	
bis(2-chloroisopropyl)Ether	4.388	4.418	4.445	4.600	4.685	4.507	2.857	
4-Methylphenol	1.369	1.582	1.463	1.594	1.586	1.519	6.585	
N-Nitroso-Di-n-Propylamine	1.696	1.870	1.926	1.902	1.871	1.834	4.478	* *
Hexachloroethane	.769	.802	.810	.815	.811	0.800	2.613	
Nitrobenzene	2.136	2.331	2.292	2.264	2.327	2.269	3.479	
Isophorone	1.162	1.206	1.129	1.153	1.163	1.163	2.405	
2-Nitrophenol	.181	.209	.200	.223	.224	0.209	6.863	*
Dimethylphenol	.355	.385	.365	.404	.395	0.381	5.408	
bis(-2-Chloroethoxy)Methane	.584	.633	.604	.620	.591	0.606	3.372	
Benzoic Acid	.153	.190	.211	.212	.172	0.188	13.477	
2,4-Dichlorophenol	.241	.252	.256	.268	.268	0.257	4.492	
1,2,4-Trichlorobenzene	.290	.275	.299	.286	.279	0.286	3.356	
Naphthalene	1.180	1.205	1.152	1.102	1.012	1.130	6.771	
4-Chloroaniline	.183	.329	.335	.393	.389	0.325	26.167	
Hexachlorobutadiene	.130	.139	.137	.136	.126	0.134	4.249	*
4-Chloro-3-Methylphenol	.373	.425	.395	.440	.424	0.411	6.329	*
2-Methylnaphthalene	.643	.658	.676	.669	.593	0.648	5.120	
Hexachlorocyclopentadiene	.113	.202	.217	.247	.257	0.207	27.652	* *
2,4,6-Trichlorophenol	.317	.356	.334	.370	.341	0.344	5.893	*
2,4,5-Trichlorophenol	.317	.356	.334	.370	.341	0.344	5.893	
2-Chloronaphthalene	1.336	1.293	1.246	1.323	1.214	1.282	4.012	
2-Nitroaniline	.662	.685	.762	.858	.833	0.760	11.442	
Dimethyl Phthalate	1.417	1.423	1.353	1.238	1.207	1.327	7.575	
Acenaphthylene	2.081	1.993	1.856	1.972	1.926	1.945	5.374	
3-Nitroaniline	$	.221	.257	.293	.273	0.261	11.765	
Acenaphthene	1.376	1.285	1.254	1.277	1.224	1.283	4.468	*
2,4-Dinitrophenol	$	.064	.060	.072	.080	0.069	12.788	* *
4-Nitrophenol	.193	.225	.246	.258	.239	0.231	10.798	* *
Dibenzofuran	1.652	1.555	1.574	1.592	1.467	1.568	4.278	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
* - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng

Semivolatile HSL Compounds
(Page 2)

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GNA 015
Calibration Date : 12/03/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		MN851203C15	MK851203C15	MM851203C15	MM851203C15	ML851203C15			
Compound		RT(20)	RT(50)	RT(80)	RT(120)	RT(160)	Avg RF	%RSD	CCC * SPCC **
2,4-Dinitrotoluene		.547	.532	.594	.599	.541	0.563	5.564	
2,6-Dinitrotoluene		.250	.274	.289	.289	.293	0.279	6.383	
Diethylphthalate		1.570	.054	.029	.033	.034	0.344	199.213	
4-Chlorophenyl-phenylether		.476	.496	.428	.456	.437	0.458	6.140	
Fluorene		1.288	1.208	1.256	1.228	1.156	1.227	4.066	
4-Nitroaniline		.152	.201	.246	.257	.258	0.223	20.672	
4,6-Dinitro-2-Methylphenol		$	.081	.074	.086	.097	0.085	11.201	
N-Nitrosodiphenylamine(1)	(1)	.478	.548	.470	.511	.507	0.503	6.137	*
4-Bromophenyl-phenylether		.174	.177	.186	.182	.192	0.182	3.972	
Hexachlorobenzene		.231	.249	.214	.234	.229	0.231	5.277	
Pentachlorophenol		.067	.101	.101	.114	.113	0.099	19.396	*
Phenanthrene		1.244	1.184	1.288	1.218	1.109	1.209	5.603	
Anthracene		1.076	1.075	1.069	1.092	.990	1.060	3.796	
Di-n-Butylphthalate		1.887	1.788	1.966	2.093	1.926	1.936	5.861	
Fluoranthene		1.012	1.028	1.098	1.168	1.093	1.070	5.936	*
Benzidine		$	.014	.016	.018	.018	0.016*	11.503	* *
Pyrene		1.774	1.749	1.727	1.598	1.709	1.711	3.966	
tylbenzylphthalate		1.053	1.140	1.224	1.222	1.249	1.177	6.865	
,3'-Dichlorobenzidine		.127	.298	.323	.368	.410	0.305	35.498	
Benzo(a)Anthracene		1.237	1.350	1.401	1.437	1.383	1.362	5.605	
bis(2-Ethylhexyl)Phthalate		1.555	1.687	1.789	1.716	1.823	1.714	6.091	
Chrysene		1.213	1.264	1.240	1.213	1.266	1.239	2.101	
Di-n-Octyl Phthalate		2.992	3.007	3.269	3.161	3.220	3.130	3.996	*
Benzo(b)Fluoranthene		1.288	1.298	1.322	.627	1.279	1.163	25.802	
Benzo(k)Fluoranthene		1.288	1.298	1.322	.627	1.279	1.163	25.802	
Benzo(a)Pyrene		1.104	1.214	1.206	1.238	1.224	1.197	4.480	*
Indeno(1,2,3-cd)Pyrene		1.119	1.199	.962	1.306	1.132	1.144	10.969	
Dibenz(a,h)Anthracene		.861	.932	1.029	1.015	1.012	0.970	7.371	
Benzo(g,h,i)Perylene		.844	.883	1.012	.951	.968	0.932	7.255	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
) - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GWA #15
Calibration Date : 12/03/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MW851203C15	MW851203C15	MW851203C15	MW851203C15	ML851203C15			
Compound	RF(20)	RF(50)	RF(80)	RT(120)	RT(160)	Avg RT	%RSD	CCC * SPCC **
1,2,3,4-Tetrachlorobenzene	.717	.626	.526	.515	.589	0.595	13.820	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
* - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : DNA 016
Calibration Date : 11/07/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	HK851108C16	HJ851108C16	HI851108C16	HH851108C16	HG851107B16		
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RT	%RSD	CCC * SPCC **
N-Nitrosodimethylamine	.484	.482	.516	.587	.593	0.533	10.212	
Phenol	2.207	2.087	2.072	1.983	2.123	2.095	3.896	*
Aniline	1.963	2.049	2.187	2.153	2.062	2.083	4.284	
bis(-2-Chloroethyl)Ether	1.655	1.594	1.662	1.615	1.722	1.649	2.996	
2-Chlorophenol	1.455	1.481	1.449	1.473	1.499	1.471	1.469	
1,3-Dichlorobenzene	1.656	1.661	1.732	1.619	1.693	1.672	2.532	
1,4-Dichlorobenzene	1.825	1.798	1.732	1.694	1.726	1.755	3.117	*
Benzyl Alcohol	.983	.988	1.014	.955	1.007	0.988	2.378	
1,2-Dichlorobenzene	1.485	1.455	1.437	1.436	1.502	1.463	2.024	
2-Methylphenol	1.283	1.241	1.292	1.268	1.229	1.263	2.157	
bis(2-chloroisopropyl)Ether	1.450	1.361	1.423	1.546	1.541	1.464	5.425	
4-Methylphenol	1.505	1.401	1.414	1.471	1.404	1.439	3.237	
N-Nitroso-Di-n-Propylamine	1.019	.963	1.019	1.067	1.051	1.024	3.885	**
Hexachloroethane	.665	.676	.714	.695	.780	0.706	6.456	
Nitrobenzene	1.385	1.308	1.459	1.457	1.391	1.400	4.442	
Isophorone	.820	.842	.833	.885	.926	0.841	3.061	
2-Nitrophenol	.220	.193	.201	.220	.229	0.213	7.253	*
-Dimethylphenol	.355	.356	.353	.384	.373	0.364	3.733	
bis(-2-Chloroethoxy)Methane	.475	.464	.472	.477	.475	0.473	1.063	
Benzoic Acid	.198	.198	.199	.215	.208	0.203	3.689	
2,4-Dichlorophenol	.274	.274	.271	.301	.277	0.279	4.390	
1,2,4-Trichlorobenzene	.309	.304	.310	.324	.314	0.312	2.385	
Naphthalene	1.164	1.141	1.157	1.013	.916	1.078	10.175	
4-Chloroaniline	.307	.463	.492	.509	.462	0.447	18.063	
Hexachlorobutadiene	.140	.142	.142	.160	.153	0.147	5.839	*
4-Chloro-3-Methylphenol	.361	.360	.359	.393	.361	0.367	3.987	*
2-Methylnaphthalene	.659	.656	.642	.672	.611	0.648	3.572	
Hexachlorocyclopentadiene	.138	.250	.262	.293	.322	0.253	27.600	**
2,4,6-Trichlorophenol	.323	.345	.350	.385	.356	0.352	6.374	*
2,4,5-Trichlorophenol	.323	.345	.350	.385	.356	0.352	6.374	
2-Chloronaphthalene	1.237	1.291	1.330	1.334	1.381	1.315	4.094	
2-Nitroaniline	.354	.401	.441	.462	.484	0.428	12.026	
Dimethyl Phthalate	1.251	1.311	1.358	1.343	1.128	1.278	7.309	
Acenaphthylene	1.993	1.982	2.086	1.996	1.867	1.985	3.927	
3-Nitroaniline	&	.260	.374	.401	.368	0.351	17.742	
Acenaphthene	1.281	1.246	1.305	1.252	1.245	1.266	2.063	*
2,4-Dinitrophenol	.085	.105	.106	.126	.116	0.108	14.374	**
4-Nitrophenol	.312	.274	.278	.286	.241	0.278	9.214	**
Dibenzofuran	1.576	1.577	1.702	1.603	1.539	1.599	3.859	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
* - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
& - not detectable at 20ng

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GWA #16
Calibration Date : 11/07/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		WK851108C16	WJ851108C16	WI851108C16	WH851108C16	WG851107B16		
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-Dinitrotoluene		.386	.389	.425	.423	.424	0.409	4.870	
2,6-Dinitrotoluene		.239	.268	.287	.299	.280	0.274	8.346	
Diethylphthalate		1.445	1.337	1.496	1.295	1.275	1.370	7.032	
4-Chlorophenyl-phenylether		.485	.476	.494	.527	.510	0.498	4.059	
Fluorene		1.270	1.271	1.368	1.361	1.277	1.309	3.870	
4-Nitroaniline		.311	.309	.374	.374	.290	0.331	12.218	
4,6-Dinitro-2-Methylphenol		.100	.094	.104	.120	.129	0.110	13.807	
N-Nitrosodiphenylamine(1)	(1)	.577	.526	.568	.678	.633	0.596	9.969	*
4-Bromophenyl-phenylether		.196	.192	.193	.229	.223	0.206	7.859	
Hexachlorobenzene		.236	.230	.225	.255	.242	0.237	4.986	
Pentachlorophenol		.124	.114	.105	.136	.125	0.121	8.952	*
Phenanthrene		1.293	1.312	1.421	1.551	1.357	1.387	7.497	
Anthracene		1.165	1.128	1.110	1.136	1.124	1.132	1.794	
Di-n-Butylphthalate		2.492	1.735	1.730	1.976	1.675	1.922	17.662	
Fluoranthene		1.286	1.129	1.114	1.259	1.086	1.175	7.752	*
Benzidine		.018	.078	.190	.305	.330	0.184	74.284	* *
Pyrene		2.425	1.927	1.839	1.865	1.918	1.995	12.188	
Butylbenzylphthalate		.977	.929	1.028	1.064	1.027	1.005	5.251	
3,3-Dichlorobenzidine		.170	.228	.263	.328	.339	0.265	26.476	
Benzo(a)Anthracene		1.424	1.320	1.350	1.362	1.305	1.352	3.409	
bis(2-Ethylhexyl)Phthalate		1.326	1.419	1.499	1.562	1.566	1.474	6.927	
Chrysene		1.370	1.265	1.266	1.230	1.180	1.264	5.470	
Di-n-Octyl Phthalate		2.501	2.524	2.725	2.896	2.953	2.720	7.608	*
Benzo(b)Fluoranthene		1.393	1.281	1.280	1.249	1.219	1.284	5.140	
Benzo(k)Fluoranthene		1.393	1.281	1.280	1.249	1.219	1.284	5.140	
Benzo(a)Pyrene		1.176	1.192	1.180	1.209	1.171	1.186	1.281	*
Indeno(1,2,3-cd)Pyrene		1.235	1.275	1.391	1.488	1.431	1.348	6.483	
Dibenz(a,h)Anthracene		.976	1.012	1.094	1.082	1.135	1.060	6.093	
Benzo(g,h,i)Perylene		.954	1.019	1.136	1.147	1.152	1.082	8.312	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile MSL Compounds
(Page 3)

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : GCA #16
Calibration Date : 11/07/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MK851108C16	MJ851108C16	MI851108C16	MH851108C16	MG851107B16			
Compound	RF(20)	RF(30)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
1,2,3,4-Tetrachlorobenzene	.903	.756	.668	.739	1.010	0.815	16.95	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
* - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
S - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Volatile HSL Compounds

Case No: URS
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : OWA #11

Calibration Date: 11/12/85
Time: 15:52
Laboratory ID : CS851112B11
Initial Calabration Date: 11/12/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
METHYL CHLORIDE	2.201	2.249	-2.171		**
METHYL BROMIDE	2.166	2.120	2.119		
VINYL CHLORIDE	2.335	2.336	-0.029	*	
CHLOROETHANE	1.067	1.082	-1.443		
METHYLENE CHLORIDE	1.634	1.661	-0.399		
ACETONE (2-PROPANONE)	0.412	0.448	-8.537		
CARBON DISULFIDE	4.918	5.047	-2.643		
1,1-DICHLOROETHYLENE	1.439	1.456	-1.132	*	
1,1-DICHLOROETHANE	3.082	3.070	0.392		**
1,2-TRANS-DICHLOROETHYLENE	1.464	1.457	0.498		
CHLOROFORM	3.429	3.504	-2.213	*	
1,2-DICHLOROETHANE	2.253	2.328	-3.306		
2-BUTANONE	0.034	0.039	-14.792		
1,1,1-TRICHLOROETHANE	0.528	0.535	-1.478		
CARBON TETRACHLORIDE	0.512	0.513	-0.254		
VINYL ACETATE	0.899	0.930	-4.395		
DICHLOROBROMOMETHANE	0.789	0.809	-2.523		
1,2-DICHLOROPROPANE	0.516	0.524	-1.568	*	
S-1,3-DICHLOROPROPYLENE	0.265	0.267	-0.717		
TRICHLOROETHYLENE	0.423	0.432	-2.199		
CHLORODIBROMOMETHANE	0.610	0.603	1.169		
1,1,2-TRICHLOROETHANE	0.411	0.423	-2.944		
BENZENE	1.122	1.128	-0.552		
CIS-1,3-DICHLOROPROPYLENE	0.845	0.835	1.209		
2-CHLOROETHYLVINYL ETHER	0.306	0.306	-0.163		
BROMOFORM	0.359	0.360	-0.278		**
2-HEXANONE	0.479	0.494	-3.129		
4-METHYL-2-PENTANONE	0.327	0.324	0.795		
TETRACHLOROETHYLENE	0.420	0.422	-0.524		
1,1,2,2-TETRACHLOROETHANE	0.652	0.656	-0.597		**
TOLUENE	0.734	0.728	0.763	*	
CHLOROBENZENE	0.977	0.976	0.112		**
ETHYLBENZENE	0.439	0.443	-1.002	*	
STYRENE	0.982	0.985	-0.356		
TOTAL XYLENES	0.566	0.567	-0.176		

RF(50) - Response Factor from daily standard file 50 ug/l
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Volatile HSL Compounds

Case No: ULS
Factor: CompuChem Laboratories
Contract No: PO#Nuno
Instrument ID : GWA #12

Calibration Date: 11/26/85
Time: 22:09
Laboratory ID : CS851126B12
Initial Calabration Date: 10/24/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Chloromethane	0.869	0.743	14.517		**
Bromomethane	1.297	1.853	-42.915		
Vinyl Chloride	0.994	1.167	-17.468	*	
Chloroethane	0.523	0.809	-54.547		
Methylene Chloride	1.390	1.399	-0.640		
Acetone	0.288	0.350	-21.297		
Carbon Disulfide	4.098	4.114	-0.383		
1,1-Dichloroethene	1.387	1.282	7.514	*	
1,1-Dichloroethane	2.164	2.323	-7.329		**
Trans-1,2-Dichloroethene	1.426	1.396	2.089		
Chloroform	2.457	2.543	-3.483	*	
1,2-Dichloroethane	1.399	1.494	-6.812		
2-Butanone	0.030	0.046	-52.173		
1,1,1-Trichloroethane	0.391	0.402	-2.816		
Carbon Tetrachloride	0.386	0.374	3.134		
Vinyl Acetate	0.495	0.464	6.239		
Bromodichloromethane	0.512	0.542	-5.862		
1,2-Dichloropropane	0.390	0.450	-15.426	*	
Tr 1,3-Dichloropropene	0.231	0.246	-6.574		
1. oroethene	0.426	0.433	-1.501		
Dibromochloromethane	0.421	0.434	-3.136		
1,1,2-Trichloroethane	0.347	0.404	-16.618		
Benzene	0.799	0.932	-16.635		
cis-1,3-Dichloropropene	0.566	0.657	-16.065		
2-Chloroethylvinylether	0.173	0.250	-44.316		
Bromoform	0.282	0.297*	-5.171		**
4-Methyl-2-Pentanone	0.406	0.453	-11.655		
2-Hexanone	0.257	0.273	-6.099		
Tetrachloroethene	0.354	0.355	-0.226		
1,1,2,2-Tetrachloroethane	0.629	0.821	-30.503		**
Toluene	0.658	0.697	-5.864	*	
Chlorobenzene	0.889	0.952	-7.169		**
Ethylbenzene	0.469	0.494	-5.325	*	
Styrene	1.105	1.051	4.957		
TOLAL XYLENES	0.590	0.608	-3.000		

RF(50) - Response Factor from daily standard file 50 ug/l
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Current ID : GWA N15

Calibration Date: 12/04/85
Time: 07:16
Laboratory ID : NG851204C15
Initial Calabration Date: 12/03/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	1.881	1.546	17.784		
Phenol	2.683	2.917	-5.007	*	
Aniline	1.709	1.941	-13.601		
bis(-2-Chloroethyl)Ether	2.437	2.346	3.749		
2-Chlorophenol	1.615	1.605	0.588		
1,3-Dichlorobenzene	1.608	1.603	0.304		
1,4-Dichlorobenzene	1.645	1.650	-0.346	*	
Benzyl Alcohol	1.073	1.108	-3.196		
1,2-Dichlorobenzene	1.476	1.511	-2.391		
2-Methylphenol	1.407	1.474	-4.754		
bis(2-chloroisopropyl)Ether	4.507	3.418	24.167		
4-Methylphenol	1.519	1.651	-8.697		
N-Nitroso-Di-n-Propylamine	1.834	1.741	5.113		**
Hexachloroethane	0.800	0.843	-5.259		
Nitrobenzene	2.269	2.081	8.276		
Isophorone	1.163	1.096	5.745		
2-Nitrophenol	0.209	0.206	1.623	*	
2,4-Dimethylphenol	0.381	0.365	4.201		
bis(-2-Chloroethoxy)Methane	0.606	0.611	-0.841		
Benzoic Acid	0.198	0.201	-7.245		
Dichlorophenol	0.257	0.271	-5.451		
1,2,4-Trichlorobenzene	0.286	0.295	-3.114		
Naphthalene	1.130	1.192	-5.459		
4-Chloroaniline	0.325	0.383	-18.052		
Hexachlorobutadiene	0.134	0.140	-4.790	*	
4-Chloro-3-Methylphenol	0.411	0.417	-1.313	*	
2-Methylnaphthalene	0.648	0.656	-1.204		
Hexachlorocyclopentadiene	0.207	0.275	-32.480		**
2,4,6-Trichlorophenol	0.344	0.369	-7.215	*	
2,4,5-Trichlorophenol	0.344	0.369	-7.215		
2-Chloronaphthalene	1.282	1.353	-5.521		
2-Nitroaniline	0.760	0.556	26.862		
Dimethyl Phthalate	1.327	1.406	-5.929		
Acenaphthylene	1.945	1.990	-2.313		
3-Nitroaniline	0.261	0.310	-18.606		
Acenaphthene	1.283	1.353	-5.432	*	
2,4-Dinitrophenol	0.069	0.080	-16.545		**
4-Nitrophenol	0.231	0.253	-9.256		**
Dibenzofuran	1.568	1.666	-6.238		

RF(50) - Response factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 7)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
trument ID : GWA #15

Calibration Date: 12/04/85
Time: 07:16
Laboratory ID : MG051204C15
Initial Calabration Date: 12/03/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.563	0.479	14.897		
2,6-Dinitrotoluene		0.279	0.300	-7.452		
Diethylphthalate		0.344	0.040	88.433		
4-Chlorophenyl-phenylether		0.458	0.489	-6.566		
Fluorene		1.227	1.321	-7.602		
4-Nitroaniline		0.223	0.287	-28.635		
4,6-Dinitro-2-Methylphenol		0.085	0.088	-3.659		
N-Nitrosodiphenylamine(1)	(1)	0.503	0.614	-22.164	*	
4-Bromophenyl-phenylether		0.182	0.202	-11.147		
Hexachlorobenzene		0.231	0.276	-19.506		
Pentachlorophenol		0.099	0.109	-10.282	*	
Phenanthrene		1.209	1.223	-1.373		
Anthracene		1.060	1.104	-4.121		
Di-n-Butylphthalate		1.936	1.742	10.030		
Fluoranthene		1.070	1.070	0.000	*	
Benzidine		0.016	0.016*	0.621		**
Pyrene		1.711	1.586	7.327		
Butylbenzylphthalate		1.177	0.879	25.360		
3,3'-Dichlorobenzidine		0.305	0.304	0.327		
Benzo(a)Anthracene		1.362	1.230	9.687		
(2-Ethyl)hexyl)Phthalate		1.714	1.388	19.042		
Chrysene		1.239	1.195	3.550		
Di-n-Octyl Phthalate		3.130	2.530	19.162	*	
Benzo(b)Fluoranthene		1.163	~~5.392~~	~~-360.251~~ -19.604		
Benzo(k)Fluoranthene		1.163	~~5.392~~	~~-360.251~~ -9.572		
Benzo(a)Pyrene		1.197	1.156	3.482	*	
Indeno(1,2,3-cd)Pyrene		1.144	1.523	-33.155		
Dibenz(a,h)Anthracene		0.970	1.246	-28.425		
Benzo(g,h,i)Perylene		0.932	1.308	-40.403		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
- Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 3)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : OMA #15

Calibration Date: 12/04/85
Time: 07:16
Laboratory ID : MG851204C15
Initial Calabration Date: 12/03/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	0.593	0.578	2.624		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
--- - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
trument ID : GMA #15

Calibration Date: 12/04/85
Time: 22:01
Laboratory ID : MS851204B15
Initial Calabration Date: 12/03/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	1.881	1.212	35.578		
Phenol	2.683	2.366	11.793	*	
Aniline	1.709	1.706	0.169		
bis(-2-Chloroethyl)Ether	2.437	1.706	30.019		
2-Chlorophenol	1.615	1.586	1.789		
1,3-Dichlorobenzene	1.608	1.603	0.335		
1,4-Dichlorobenzene	1.695	1.708	-3.873	*	
Benzyl Alcohol	1.073	0.950	11.507		
1,2-Dichlorobenzene	1.476	1.485	-0.603		
2-Methylphenol	1.407	1.329	5.898		
bis(2-chloroisopropyl)Ether	4.507	3.101	31.194		
4-Methylphenol	1.519	1.503	1.046		
N-Nitroso-Di-n-Propylamine	1.834	1.510	17.669		**
Hexachloroethane	0.800	0.813	-1.524		
Nitrobenzene	2.269	1.977	12.868		
Isophorone	1.117	0.9[illegible]	14.9[illegible]		
2-Nitrophenol	0.209	0.201	3.868	*	
2,4-Dimethylphenol	0.381	0.341	10.504		
bis(-2-Chloroethoxy)Methane	0.606	0.570	5.921		
Benzoic Acid	0.188	0.175	6.659		
Dichlorophenol	0.257	0.276	-7.281		
,,,4-Trichlorobenzene	0.286	0.317	-10.951		
Naphthalene	1.130	1.131	-0.061		
4-Chloroaniline	0.325	0.283	12.709		
Hexachlorobutadiene	0.134	0.160	-19.386	*	
4-Chloro-3-Methylphenol	0.411	0.364	11.575	*	
2-Methylnaphthalene	0.648	0.643	0.787		
Hexachlorocyclopentadiene	0.207	0.285	-37.403		**
2,4,6-Trichlorophenol	0.349	0.356	-3.607	*	
2,4,5-Trichlorophenol	0.345	0.356	-3.607		
2-Chloronaphthalene	1.282	1.301	-1.434		
2-Nitroaniline	0.760	0.429	43.590		
Dimethyl Phthalate	1.327	1.405	-5.823		
Acenaphthylene	1.945	1.790	7.998		
3-Nitroaniline	0.261	0.198	24.119		
Acenaphthene	1.283	1.244	3.047	*	
2,4-Dinitrophenol	0.069	0.074	-7.982		**
4-Nitrophenol	0.231	0.171	25.865		**
Dibenzofuran	1.568	1.576	-0.529		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile MSL Compounds
(Page 2)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GMA #15

Calibration Date: 12/04/85
Time: 22:01
Laboratory ID : MS851204B15
Initial Calibration Date: 12/03/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.563	0.391	30.471		
2,6-Dinitrotoluene		0.279	0.263	5.840		
Diethylphthalate		0.344	0.032	90.671		
4-Chlorophenyl-phenylether		0.458	0.506	-10.405		
Fluorene		1.227	1.154	5.948		
4-Nitroaniline		0.223	0.208	6.867		
4,6-Dinitro-2-Methylphenol		0.085	0.083	2.479		
N-Nitrosodiphenylanine(1)	(1)	0.503	0.400	20.433	*	
4-Bromophenyl-phenylether		0.182	0.214	-17.682		
Hexachlorobenzene		0.231	0.308	-33.261		
Pentachlorophenol		0.099	0.087	11.895	*	
Phenanthrene		1.209	1.122	7.132		
Anthracene		1.060	1.047	1.291		
Di-n-Butylphthalate		1.936	1.596	17.561		
Fluoranthene		1.070	1.003	6.272	*	
Benzidine		0.016	0.012*	27.329		**
Pyrene		1.711	1.604	6.287		
Butylbenzylphthalate		1.177	0.787	33.183		
3,3'-Dichlorobenzidine		0.305	0.261	14.323		
Benzo(a)Anthracene		1.362	1.249	8.277		
bis(2-Ethylhexyl)Phthalate		1.714	1.081	36.923		
Chrysene		1.239	1.191	3.897		
Di-n-Octyl Phthalate		3.130	2.503	20.019	*	
Benzo(b)Fluoranthene		1.163	1.658	-42.612		
Benzo(k)Fluoranthene		1.163	1.154	0.730		
Benzo(a)Pyrene		1.197	1.207	-0.776	*	
Indeno(1,2,3-cd)Pyrene		1.144	1.550	-35.507		
Dibenz(a,h)Anthracene		0.970	1.257	-29.580		
Benzo(g,h,i)Perylene		0.932	1.240	-33.115		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylanine

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : OWA #15

Calibration Date: 12/04/85
Time: 22:01
Laboratory ID : HG851204B15
Initial Calabration Date: 12/03/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	0.395	0.718	-20.679		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GWA M16

Calibration Date: 11/16/85
Time: 12:58
Laboratory ID : AJ851116M16
Initial Calabration Date: 11/07/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	0.533	0.581	-9.032		
Phenol	2.095	2.151	-2.673	*	
Aniline	2.083	1.988	4.556		
bis(-2-Chloroethyl)Ether	1.649	1.767	-7.117		
2-Chlorophenol	1.471	1.490	-1.292		
1,3-Dichlorobenzene	1.672	1.603	4.120		
1,4-Dichlorobenzene	1.735	1.780	-1.436	*	
Benzyl Alcohol	0.988	0.293	70.337		
1,2-Dichlorobenzene	1.463	1.566	-7.068		
2-Methylphenol	1.263	1.512	-19.760		
bis(2-chloroisopropyl)Ether	1.464	1.852	-26.459		
4-Methylphenol	1.439	1.633	-13.453		
N-Nitroso-Di-n-Propylamine	1.024	1.227	-19.785		**
Hexachloroethane	0.706	0.698	1.062		
Nitrobenzene	1.400	1.685	-20.357		
Isophorone	0.841	0.918	-9.107		
2-Nitrophenol	0.273	0.199	6.663	*	
2,4-Dimethylphenol	0.364	0.340	6.652		
bis(-2-Chloroethoxy)Methane	0.473	0.477	-0.909		
Benzoic Acid	0.203	0.226	-10.865		
'-Dichlorophenol	0.279	0.294	-5.155		
,2,4-Trichlorobenzene	0.312	0.337	-7.783		
Naphthalene	1.078	1.077	0.139		
4-Chloroaniline	0.447	0.286	36.058		
Hexachlorobutadiene	0.147	0.159	-8.220	*	
4-Chloro-3-Methylphenol	0.367	0.347	5.423	*	
2-Methylnaphthalene	0.648	0.656	-1.234		
Hexachlorocyclopentadiene	0.253	0.262	-3.359		**
2,4,6-Trichlorophenol	0.352	0.364	-3.440	*	
2,4,5-Trichlorophenol	0.352	0.364	-3.440		
2-Chloronaphthalene	1.315	1.312	0.205		
2-Nitroaniline	0.428	0.461	-7.686		
Dimethyl Phthalate	1.278	1.195	6.509		
Acenaphthylene	1.985	1.790	9.804		
3-Nitroaniline	0.351	0.116	66.951		
Acenaphthene	1.266	1.253	0.987	*	
2,4-Dinitrophenol	0.108	0.107	0.278		**
4-Nitrophenol	0.278	0.138	50.485		**
Dibenzofuran	1.599	1.576	1.481		

RF(50) - Response factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Current ID : QWA 016

Calibration Date: 11/16/85
Time: 12:50
Laboratory ID : NJ851116A16
Initial Calabration Date: 11/07/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.409	0.370	9.699		
2,6-Dinitrotoluene		0.274	0.272	1.056		
Diethylphthalate		1.370	1.308	4.504		
4-Chlorophenyl-phenylether		0.498	0.471	5.577		
Fluorene		1.309	1.199	8.454		
4-Nitroaniline		0.331	0.149	55.018		
4,6-Dinitro-2-Methylphenol		0.110	0.103	6.648		
N-Nitrosodiphenylamine(1)	(1)	0.596	0.502	15.878	*	
4-Bromophenyl-phenylether		0.206	0.207	-0.826		
Hexachlorobenzene		0.237	0.228	4.128		
Pentachlorophenol		0.121	0.101	16.666	*	
Phenanthrene		1.387	1.230	11.329		
Anthracene		1.132	1.155	-1.960		
Di-n-Butylphthalate		1.922	1.482	22.892		
Fluoranthene		1.175	0.988	15.866	*	
Benzidine		0.184	0.031*	83.161		**
Pyrene		1.995	2.198	-10.177		
Butylbenzylphthalate		1.005	1.109	-10.378		
3,3'-Dichlorobenzidine		0.265	0.201	24.119		
Benzo(a)Anthracene		1.352	~~1.334~~ 0.679	~~49.778~~ 1.33 RW		
bis(2-Ethylhexyl)Phthalate		1.474	1.641	-11.293		
Chrysene		1.264	~~1.340.679~~	~~46.280~~ 4.75 RW		
Di-n-Octyl Phthalate		2.720	2.700	0.742	*	
Benzo(b)Fluoranthene		1.289	1.173	8.682		
Benzo(k)Fluoranthene		1.284	1.173	8.682		
Benzo(a)Pyrene		1.186	1.141	3.778	*	
Indeno(1,2,3-cd)Pyrene		1.348	1.241	7.959		
Dibenz(a,h)Anthracene		1.060	1.009	4.793		
Benzo(g,h,i)Perylene		1.092	1.064	1.636		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
% - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GWA #16

Calibration Date: 11/16/85
Time: 12:58
Laboratory ID : HJ851116A16
Initial Calabration Date: 11/07/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	0.815	1.219	-49.497		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : CMA #16

Calibration Date: 11/17/85
Time: 07:30
Laboratory ID : MN851117A16
Initial Calabration Date: 11/07/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	0.513	0.652	-22.366		
Phenol	2.095	1.950	6.913	*	
Aniline	2.083	1.142	45.191		
bis(2-Chloroethyl)Ether	1.649	1.776	-7.681		
2-Chlorophenol	1.471	1.435	2.434		
1,3-Dichlorobenzene	1.672	1.546	7.523		
1,4-Dichlorobenzene	1.755	1.611	8.223	*	
Benzyl Alcohol	0.988	0.259	73.788		
1,2-Dichlorobenzene	1.463	1.477	-0.950		
2-Methylphenol	1.263	1.512	-19.713		
bis(2-chloroisopropyl)Ether	1.468	1.777	-21.344		
4-Methylphenol	1.439	1.456	-1.180		
N-Nitroso-Di-n-Propylamine	1.024	1.128	-10.146		**
Hexachloroethane	0.706	0.695	1.515		
Nitrobenzene	1.400	1.487	-6.179		
Isophorone	0.841	0.854	-1.557		
2-Nitrophenol	0.213	0.204	4.504	*	
2,4-Dimethylphenol	0.364	0.321	11.792		
bis(2-Chloroethoxy)Methane	0.473	0.464	1.777		
Benzoic Acid	0.203	0.216	-6.293		
Dichlorophenol	0.279	0.274	2.005		
,4-Trichlorobenzene	0.312	0.331	-5.989		
Naphthalene	1.078	1.110	-2.968		
4-Chloroaniline	0.447	0.146	67.256		
Hexachlorobutadiene	0.147	0.165	-12.092	*	
4-Chloro-3-Methylphenol	0.367	0.317	13.682	*	
2-Methylnaphthalene	0.648	0.618	4.675		
Hexachlorocyclopentadiene	0.253	0.296	-17.035		**
2,4,6-Trichlorophenol	0.357	0.362	-2.957	*	
2,4,5-Trichlorophenol	0.352	0.362	-2.957		
2-Chloronaphthalene	1.315	1.308	0.517		
2-Nitroaniline	0.428	0.466	-8.855		
Dimethyl Phthalate	1.278	1.329	-3.966		
Acenaphthylene	1.985	1.922	3.189		
3-Nitroaniline	0.351	0.097	72.398		
Acenaphthene	1.266	1.251	1.177	*	
2,4-Dinitrophenol	0.108	0.131	-21.747		**
4-Nitrophenol	0.278	0.255	8.408		**
Dibenzofuran	1.599	1.668	-4.308		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RT - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Semivolatile HSL Compounds
(Page 2)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GWA #16

Calibration Date: 11/17/85
Time: 07:30
Laboratory ID : HH851117A16
Initial Calabration Date: 11/07/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.409	0.398	2.858		
2,6-Dinitrotoluene		0.274	0.285	-3.862		
Diethylphthalate		1.370	1.354	1.109		
4-Chlorophenyl-phenylether		0.498	0.475	4.634		
Fluorene		1.309	1.184	9.577		
4-Nitroaniline		0.331	0.153	53.688		
4,6-Dinitro-2-Methylphenol		0.110	0.108	2.094		
N-Nitrosodiphenylamine(1)	(1)	0.596	0.547	8.283	*	
4-Bromophenyl-phenylether		0.206	0.193	6.177		
Hexachlorobenzene		0.237	0.222	6.360		
Pentachlorophenol		0.121	0.114	5.858	*	
Phenanthrene		1.387	1.258	9.309		
Anthracene		1.132	1.224	-8.098		
Di-n-Butylphthalate		1.922	1.942	-1.082		
Fluoranthene		1.175	1.040	11.465	*	
Benzidine		0.186	0.027*	85.116		**
Pyrene		1.938	2.088	-4.662		
Butylbenzylphthalate		1.005	1.284	-27.721		
3,3'-Dichlorobenzidine		0.265	0.192	27.694		
Benzo(a)Anthracene		1.352	1.343	0.680		
(2-Ethylhexyl)Phthalate		1.474	3.139	-112.921		
/sene		1.264	1.284	-1.566		
Di-n-Octyl Phthalate		2.720	2.509	7.945	*	
Benzo(b)Fluoranthene		1.284	1.144	10.893		
Benzo(k)Fluoranthene		1.284	1.144	10.893		
Benzo(a)Pyrene		1.186	1.150	3.002	*	
Indeno(1,2,3-cd)Pyrene		1.348	1.210	10.215		
Dibenz(a,h)Anthracene		1.060	1.051	0.849		
Benzo(g,h,i)Perylene		1.082	1.061	1.941		

RF(50) - Response factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Case No: _____

Contractor: CompuChem Laboratories

Contract No: _____

Instrument ID : GWA #16

Calibration Date: 11/17/85

Time: 07:30

Laboratory ID : HW851117#16

Initial Calabration Date: 11/07/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	0.815	0.898	-10.120		

RF(50) - Response Factor from daily standard file at concentration indicated

Avg RF - Average Response Factor from Initial Calibration Form VI

%D - Percent Difference

CCC - Calibration Check Compounds (*)

SPCC - System Performance Check Compounds (**)

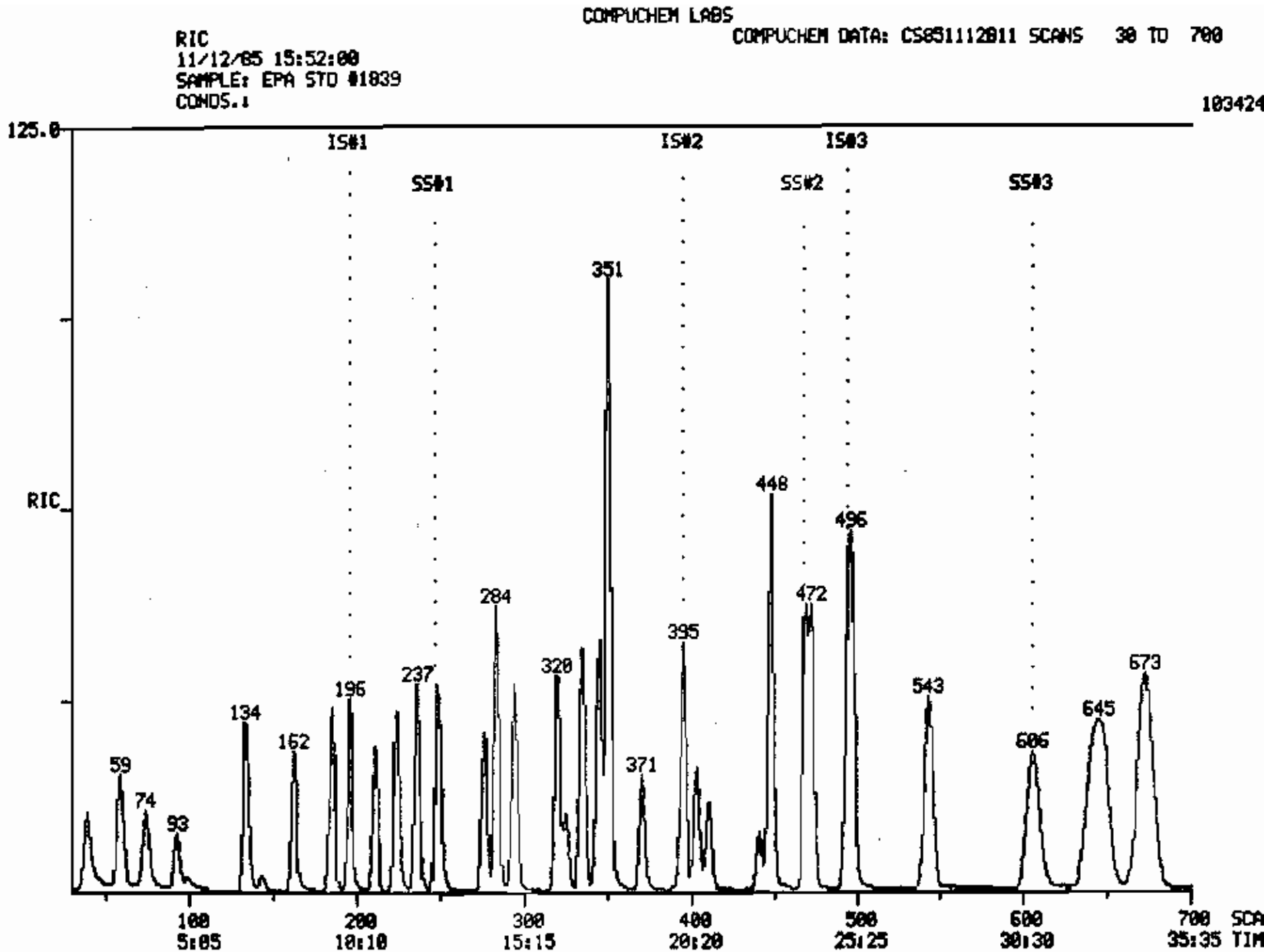
(1) - Cannot be seperated from diphenylamine

EPA CASE# URS

COMPUCHEM CASE SUMMARY REFERENCE GUIDE

REVIEWER

Fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
Voa	BB851112B11	CS851112B11	66512	52457-E					
	"	"	66514	52457D					
	"	"	66516	52457G					
	"	"	66505	52					
	"	"	66506	52					
	"	"	66520	52451B					
	BF851126B12	CS851112B11	66522	52					


COMPUCHEM LABS
COMPUCHEM DATA: CS851112B11 SCANS 30 TO 700
RIC
11/12/85 15:52:00
SAMPLE: EPA STD #1839
CONDS.1
103424
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
59
74
93
134
162
195
237
284
320
351
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472
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543
606
645
673
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCA
TIM

QUANTITATION REPORT FILE: CS851112B11

DATA: CS851112B11.TI
11/12/85 15:52:00
SAMPLE: EPA STD #1639
CONDS.:
SUBMITTED BY: 11 ANALYST: 890

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	218 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	216 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P-XYLENE
40	*258 D4-1,2-DICHLOROETHANE
	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

11/13/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:58	1	1.000	A BV	110390	50.000 UG/L	2.21
2	50	39	1:59	1	0.199	A BB	248191	55.350 UG/L	2.44

?	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
?	94	59	3:00	1	0.301	A BB	233955.	52.401	UG/L	2.31
4	62	74	3:46	1	0.378	A BB	257771.	52.761	UG/L	2.33
5	64	93	4:44	1	0.474	A BB	119439.	55.173	UG/L	2.43
6	84	134	6:49	1	0.684	A BV	183263.	55.538	UG/L	2.45
7	43	144	7:19	1	0.735	A BB	49385.	62.475	UG/L	2.76
8	76	162	8:14	1	0.827	A BB	356986.	52.253	UG/L	2.31
9	96	186	9:27	1	0.949	A BV	160611.	52.647	UG/L	2.32
10	63	211	10:44	1	1.077	A BV	338749.	53.133	UG/L	2.34
11	96	224	11:23	1	1.143	A BV	160736.	51.671	UG/L	2.28
12	83	237	12:03	1	1.209	A BV	386710.	54.930	UG/L	2.42
13	62	251	12:46	1	1.281	A BV	256885.	53.118	UG/L	2.34
14	114	395	20:05	14	1.000	A BV	439780.	50.000	UG/L	2.21
15	72	247	12:33	14	0.625	A BB	17073.	58.748	UG/L	2.59
16	97	276	14:02	14	0.699	A BV	235435.	53.224	UG/L	2.35
17	117	284	14:26	14	0.719	A VB	225654.	50.263	UG/L	2.22
18	43	284	14:26	14	0.719	A BV	412549.	50.013	UG/L	2.21
19	83	294	14:57	14	0.744	A BB	355569.	53.838	UG/L	2.38
20	63	321	16:19	14	0.813	A BV	230625.	52.845	UG/L	2.33
21	75	325	16:31	14	0.823	A BV	117296.	51.089	UG/L	2.25
22	130	335	17:02	14	0.848	A BV	190046.	53.616	UG/L	2.37
23	129	350	17:47	14	0.886	A BB	265036.	48.239	UG/L	2.13
24	97	351	17:51	14	0.889	A BB	186040.	53.828	UG/L	2.37
25	78	345	17:32	14	0.873	A BB	496075.	52.557	UG/L	2.32
26	75	351	17:51	14	0.889	A VB	366978.	48.907	UG/L	2.16
27	63	371	18:52	14	0.939	A BV	134644.	51.259	UG/L	2.26
?	173	403	20:29	14	1.020	A BB	158208.	48.877	UG/L	2.16
?	117	494	25:07	29	1.000	A BB	394940.	50.000	UG/L	2.21
30	43	411	20:54	29	0.892	A BB	195238.	54.813	UG/L	2.42
31	43	441	22:25	29	0.893	A BB	128069.	54.061	UG/L	2.38
32	164	447	22:43	29	0.905	A BB	166659.	52.588	UG/L	2.32
33	83	448	22:46	29	0.907	A BB	259125.	54.934	UG/L	2.42
34	92	472	24:00	29	0.955	A BB	287622.	52.648	UG/L	2.32
35	112	497	25:16	29	1.006	A BV	385337.	54.024	UG/L	2.38
36	106	543	27:36	29	1.099	A BB	175131.	55.124	UG/L	2.43
37	104	641	32:35	29	1.298	A BB	389095.	54.402	UG/L	2.40
38	106	647	32:53	29	1.310	A BB	223638.	52.798	UG/L	2.33
39	106	673	34:13	29	1.362	A BB	423634.	108.879	UG/L	4.80
40	69	248	12:36	1	1.265	A BV	228745.	43.885	UG/L	1.94
41	95	606	30:48	29	1.227	A BB	334184.	51.482	UG/L	2.27
42	98	468	23:47	1	2.388	A BB	461033.	48.331	UG/L	2.13

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:19	0.97	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:59	1.00	10.000	0.02	55.35	50.00	2.249	2.032	1.11
3	2:57	1.02	10.000	0.03	52.40	50.00	2.120	2.023	1.05
4	3:46	1.00	10.000	0.04	52.76	50.00	2.336	2.214	1.06
5	4:44	1.00	10.000	0.05	55.17	50.00	1.082	0.981	1.10
6	7:01	0.97	5.000	0.14	55.54	50.00	1.661	1.495	1.11
7	7:31	0.97	10.000	0.07	62.47	50.00	0.448	0.358	1.25
8	8:35	0.96	5.000	0.17	52.25	50.00	5.047	4.830	1.05
9	9:49	0.96	5.000	0.19	52.65	50.00	1.455	1.382	1.05
	11:05	0.97	5.000	0.22	53.13	50.00	3.070	2.889	1.06
11	11:45	0.97	5.000	0.23	51.67	50.00	1.457	1.409	1.03
12	12:18	0.98	5.000	0.24	54.93	50.00	3.504	3.190	1.10
13	12:58	0.98	5.000	0.26	53.12	50.00	2.328	2.191	1.06
14	20:08	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
	12:49	0.98	10.000	0.06	58.75	50.00	0.039	0.033	1.17
16	14:17	0.98	5.000	0.14	53.22	50.00	0.535	0.503	1.06
17	14:38	0.99	5.000	0.14	50.26	50.00	0.513	0.510	1.01
18	14:41	0.98	10.000	0.07	50.01	50.00	0.938	0.938	1.00
19	15:09	0.99	5.000	0.15	53.84	50.00	0.809	0.751	1.08
20	16:25	0.99	5.000	0.16	52.84	50.00	0.524	0.496	1.06
21	16:40	0.99	5.000	0.16	51.09	50.00	0.267	0.261	1.02
22	17:08	0.99	5.000	0.17	53.62	50.00	0.432	0.403	1.07
23	17:34	0.99	5.000	0.18	48.24	50.00	0.603	0.625	0.96
24	17:57	0.99	5.000	0.18	53.83	50.00	0.423	0.393	1.08
25	17:38	0.99	5.000	0.17	52.56	50.00	1.128	1.073	1.05
26	17:34	1.00	5.000	0.18	48.91	50.00	0.834	0.853	0.98
27	18:55	1.00	10.000	0.09	51.26	50.00	0.306	0.299	1.03
28	20:32	1.00	5.000	0.20	48.88	50.00	0.360	0.368	0.98
29	25:07	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:54	1.00	10.000	0.08	54.81	50.00	0.494	0.451	1.10
31	22:25	1.00	10.000	0.09	54.06	50.00	0.324	0.300	1.08
32	22:46	1.00	5.000	0.18	52.59	50.00	0.422	0.401	1.05
33	22:49	1.00	5.000	0.18	54.93	50.00	0.656	0.597	1.10
34	24:03	1.00	5.000	0.19	52.65	50.00	0.728	0.692	1.05
35	25:16	1.00	5.000	0.20	54.02	50.00	0.976	0.903	1.08
36	27:36	1.00	5.000	0.22	55.12	50.00	0.443	0.402	1.10
37	32:35	1.00	5.000	0.26	54.40	50.00	0.965	0.905	1.09
38	32:56	1.00	5.000	0.26	52.80	50.00	0.567	0.537	1.06
39	34:13	1.00	5.000	0.27	108.88	100.00	0.536	0.493	1.09
	12:55	0.98	10.000	0.13	43.89	50.00	2.073	2.362	0.88
	30:48	1.00	10.000	0.12	51.48	50.00	0.846	0.822	1.03
42	23:50	1.00	10.000	0.24	48.33	50.00	4.178	4.322	0.97

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 9:41
Time Tune Expires 21:41

Shift(s) (A) ✓ (B) ✓ (C) ____
Date 11/12/95
Analysis Type EPA H2O

REJECTED	Run Log File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
X	BF851112A11		11	9:08			2ml	891		115	#16015
	BB851112A11		11	9:37			2ml	891		115	#16015
X	CS851112A11		11	9:56			5ml	891		115	#1939(50) Old lot
	CT851112A11		11	10:42			5ml	891		115	#1939(50) New lot #16071
	CB851112A11		11	11:48			5ml	891		115	Blank
	CV851112A11		11	12:34			5ml	633		115	std 1842(20)
	CV851112A11		11	1321			5ml	714		115	std #641(150)
	CW851112A11		11	13:57			5ml	633		115	std #1840(100)
	CX851112A11		11	15:03			5ml	633		115	std #1836(20)
	CS851112B11		11	15:52			5ml	890		115	std #1839(60)
	CN066512B11		11	16:57	52237-E	URS	5ml	890		115	
	CN066519B11		11	1748	52237-D	UPS	5ml	890		115	
	CN066516B11		11	18:34	52237-G	URS	5ml	890		115	
	CN066508B11		11	19:13	~~52237-A~~	URS	5ml	890		115	orig=66512
	CN066506B11		11	1959	SS#2	URS	5ml	890		115	orig=66512
	CN066518B11		11	20:41	52237-A	URS	5ml	890		115	
	CN066520B11		11	21:20	52237-B	URS	5ml	890		115	
			11	:							
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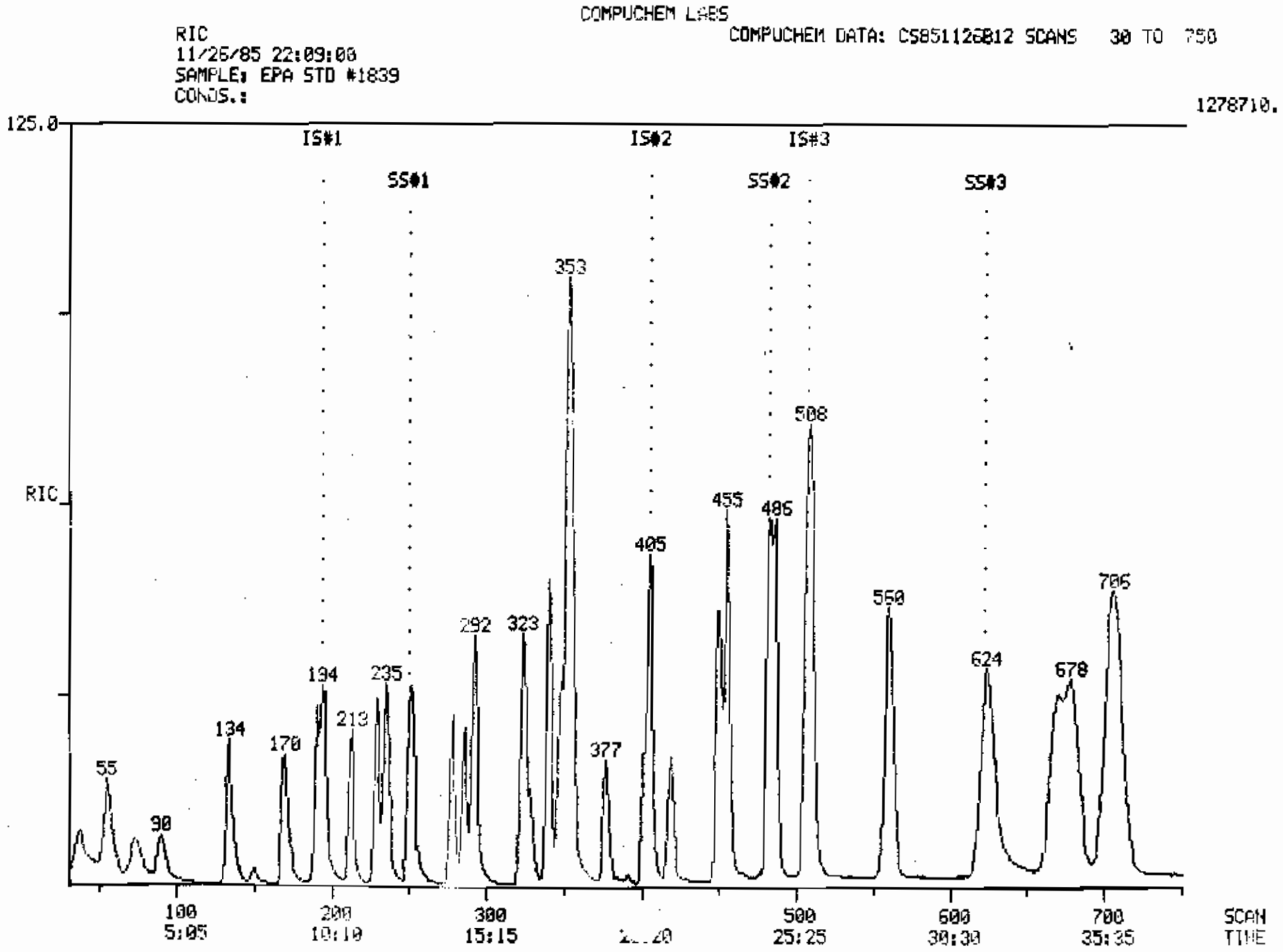
Press Hard. ...ple Copies


COMPUCHEM LABS
RIC
11/26/85 22:09:00
SAMPLE: EPA STD #1839
CONDS.:
COMPUCHEM DATA: CS851126B12 SCANS 30 TO 750
1278710.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
55
90
134
170
194
213
235
292
323
353
377
405
455
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500
25:25
600
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700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CS851126B12

DATA: CS851126B12.TI
26/85 22:09:00
SAMPLE: EPA STD #1839
CONDS.:
SUBMITTED BY: 12 ANALYST: 890

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	#258 D4-1,2-DICHLOROETHANE
41	#247 BROMOFLUOROBENZENE
42	#233 D8-TOLUENE

LWB 11/27/85

	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	194	9:52	1	1.000	A BB	205429.	50.000 UG/L	2.24
2	50	37	1:53	1	0.191	A BB	152663.	56.160 UG/L	2.51

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	55	2:48	1	0.284	A BB	380639.	59.734	UG/L	2.67
4	62	73	3:43	1	0.376	A BB	239810.	59.283	UG/L	2.65
	64	90	4:34	1	0.464	A BB	166176.	60.341	UG/L	2.70
6	84	134	6:49	1	0.691	A BB	287409.	51.403	UG/L	2.30
7	43	149	7:34	1	0.768	A BV	71845.	46.630	UG/L	2.08
8	76	170	8:38	1	0.876	A BB	845036.	47.394	UG/L	2.12
9	96	190	9:39	1	0.979	A BV	263445.	48.632	UG/L	2.17
10	63	213	10:50	1	1.098	A BB	477100.	49.181	UG/L	2.20
11	96	229	11:38	1	1.180	A BB	286801.	50.121	UG/L	2.24
12	83	235	11:57	1	1.211	A BB	522351.	49.337	UG/L	2.21
13	62	252	12:49	1	1.299	A BB	306923.	48.481	UG/L	2.17
14	114	405	20:35	14	1.000	A BB	847986.	50.000	UG/L	2.24
15	72	254	12:55	14	0.627	A BV	38592.	51.967	UG/L	2.32
16	97	278	14:08	14	0.686	A BV	340456.	52.113	UG/L	2.33
17	117	286	14:32	14	0.706	A VB	317065.	51.608	UG/L	2.31
18	43	291	14:48	14	0.719	A BB	393723.	49.963	UG/L	2.23
19	83	292	14:51	14	0.721	A BB	459364.	54.268	UG/L	2.43
20	63	323	16:25	14	0.798	A BV	381352.	54.027	UG/L	2.42
21	75	328	16:40	14	0.810	A BB	208951.	53.269	UG/L	2.38
22	130	340	17:17	14	0.840	A BB	366933.	52.164	UG/L	2.33
23	129	348	17:41	14	0.859	A BB	367994.	52.618	UG/L	2.35
24	97	352	17:54	14	0.869	A VB	342771.	54.089	UG/L	2.42
25	78	354	18:00	14	0.874	A BB	790145.	54.103	UG/L	2.42
26	75	354	18:00	14	0.874	A BB	556892.	52.225	UG/L	2.33
27	63	377	19:10	14	0.931	A BV	212106.	55.504	UG/L	2.48
28	173	402	20:26	14	0.993	A BB	251777.	51.616	UG/L	2.31
29	117	507	25:46	29	1.000	A BB	781248.	50.000	UG/L	2.24
30	43	419	21:18	29	0.826	A BB	353966.	51.227	UG/L	2.29
	43	451	22:56	29	0.890	A BB	213341.	47.522	UG/L	2.12
32	164	455	23:08	29	0.897	A BV	277105.	53.066	UG/L	2.37
33	83	449	22:49	29	0.886	A BB	641393.	55.842	UG/L	2.50
34	92	486	24:42	29	0.959	A BV	544347.	55.062	UG/L	2.46
35	112	509	25:52	29	1.004	A BV	743924.	55.145	UG/L	2.47
36	106	560	28:29	29	1.105	A BV	386223.	54.780	UG/L	2.45
37	104	669	34:00	29	1.320	A BB	820798.	50.648	UG/L	2.26
38	106	679	34:31	29	1.339	A BB	474729.	50.623	UG/L	2.26
39	106	706	35:53	29	1.393	A BB	919609.	101.591	UG/L	4.54
40	65	250	12:42	1	1.289	A BB	284855.	46.290	UG/L	2.07
41	95	623	31:40	29	1.229	A BB	623989.	52.513	UG/L	2.35
42	98	482	24:30	1	2.485	A BV	868104.	46.411	UG/L	2.07

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:03	1.09	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:56	0.97	10.000	0.02	56.16	50.00	0.743	0.662	1.12
3	2:48	1.00	10.000	0.03	59.73	50.00	1.853	1.551	1.19
4	3:40	1.01	10.000	0.04	59.28	50.00	1.167	0.985	1.19
5	4:28	1.02	10.000	0.05	60.34	50.00	0.809	0.670	1.21
6	6:33	1.04	5.000	0.14	51.40	50.00	1.399	1.361	1.03
7	7:19	1.03	10.000	0.08	46.63	50.00	0.350	0.375	0.93
8	8:26	1.02	5.000	0.18	47.39	50.00	4.114	4.340	0.95
9	9:30	1.02	5.000	0.20	48.63	50.00	1.282	1.318	0.97
10	10:40	1.01	5.000	0.22	49.18	50.00	2.322	2.361	0.98
11	11:32	1.01	5.000	0.24	50.12	50.00	1.396	1.393	1.00
	11:51	1.01	5.000	0.24	49.34	50.00	2.543	2.577	0.99
	12:42	1.01	5.000	0.26	48.48	50.00	1.494	1.541	0.97
14	20:35	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:49	1.01	10.000	0.06	51.97	50.00	0.046	0.044	1.04
"	14:02	1.01	5.000	0.14	52.11	50.00	0.401	0.385	1.04
	14:26	1.01	5.000	0.14	51.61	50.00	0.374	0.362	1.03
18	14:48	1.00	10.000	0.07	49.96	50.00	0.464	0.465	1.00
19	14:51	1.00	5.000	0.14	54.27	50.00	0.542	0.499	1.09
20	16:25	1.00	5.000	0.16	54.03	50.00	0.450	0.416	1.08
21	16:40	1.00	5.000	0.16	53.27	50.00	0.246	0.231	1.07
22	17:17	1.00	5.000	0.17	52.16	50.00	0.433	0.415	1.04
23	17:38	1.00	5.000	0.17	52.62	50.00	0.434	0.412	1.05
24	17:51	1.00	5.000	0.17	54.09	50.00	0.404	0.374	1.08
25	18:00	1.00	5.000	0.17	54.10	50.00	0.932	0.861	1.08
26	17:57	1.00	5.000	0.17	52.23	50.00	0.657	0.629	1.04
27	19:10	1.00	10.000	0.09	55.50	50.00	0.250	0.225	1.11
28	20:26	1.00	5.000	0.20	51.62	50.00	0.297	0.288	1.03
29	25:46	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18	1.00	10.000	0.08	51.23	50.00	0.453	0.442	1.02
31	22:56	1.00	10.000	0.09	47.52	50.00	0.273	0.287	0.95
32	23:08	1.00	5.000	0.18	53.07	50.00	0.355	0.334	1.06
33	22:49	1.00	5.000	0.18	55.84	50.00	0.821	0.735	1.12
34	24:49	1.00	5.000	0.19	55.06	50.00	0.697	0.633	1.10
35	25:52	1.00	5.000	0.20	55.15	50.00	0.952	0.863	1.10
36	28:28	1.00	5.000	0.22	54.78	50.00	0.494	0.451	1.10
37	34:00	1.00	5.000	0.26	50.65	50.00	1.051	1.037	1.01
38	34:31	1.00	5.000	0.27	50.62	50.00	0.608	0.600	1.01
39	35:53	1.00	5.000	0.28	101.59	100.00	0.589	0.579	1.02
40	12:36	1.01	50.000	0.03	46.29	50.00	1.387	1.498	0.93
41	31:40	1.00	50.000	0.02	52.51	50.00	0.799	0.760	1.05
42	24:30	1.00	50.000	0.05	46.41	50.00	4.226	4.553	0.93

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 21:44 Shift(s) (A) (B)
Time Tune Expires 9:44 Date 11/26/85
Analysis Type

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No	COMMENTS (STD I.D., Lot #,
1		BFS11126B12		11/26/85	21:44			2ml	890		126	16120
2		SSS11126B12		11	22:09			5ml	890		126	STD #1130
3		CDF11126B12		11	23:01			5ml	890		126	16150, 16170
4		CWC1142B12		11	23:41	HBH1	5160-1 5160	5ml	890		126	
5		CMX1143C12		11/27/85	0:35	HO"	5169-1 516	5ml	812		126	
6		CMC1145B10C12		11	1:17	HC-1	5230	5ml	812			
7		CMC1152C12		11	2:02	H	tRi	5ml	812			
8		CMC1157C12		11	2:51	H	5240	5ml	812			
9		CMC1209C12		11	3:46	G	5261	5ml	812			
10		CMC1209C12		11	4:31	Q	5263	5ml	812			
11		CMC1210C12		11	5:16	SS	5265	5ml	812			
12		CMC1102C12		11	5:59	SS	5265	5ml	812			
13		CMC1206C12		11	6:43	C	5268	5ml	812			
14		CMC1116C12		11	7:30	S	5267	5ml	812			
15	X	CMC69117A11		11	7:30	GC-67	5269	1ml	597			
16		CMC69117A12		11	9:21	QC-68	5268	5ml	571			large ext. peak
17		CC85112712		11	:	QC-70		2ml	177			
18				11	:							
19				11	:							
20				11	:							
21				11	:							
22				11	:							
23				11	:							
24				11	:							
25				11	:							
26				11	:							

11/27/85

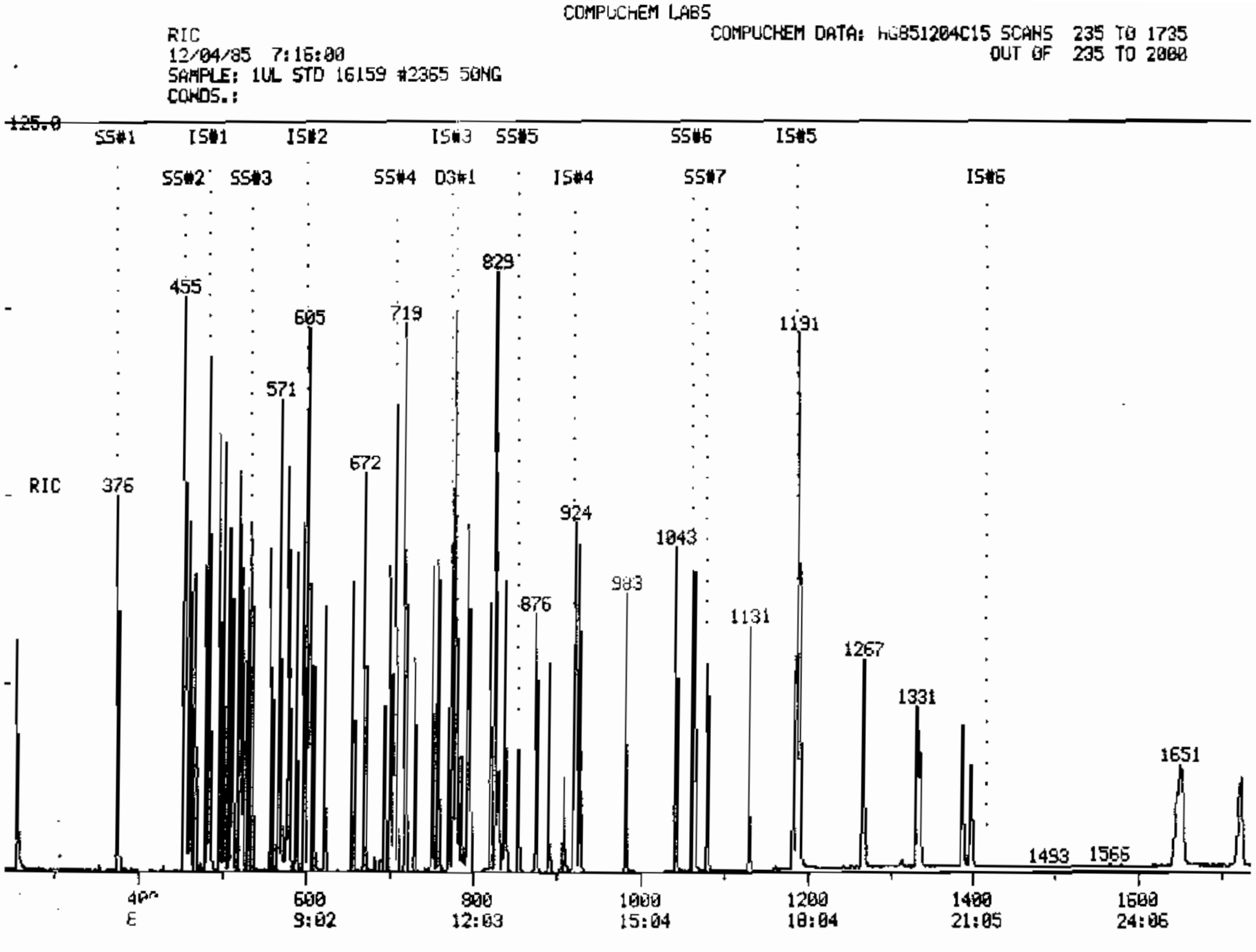
received

EPA CASE# URS

COMPUCHEM CASE SUMMARY REFERENCE GUIDE

REVIEWER

fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
S,Vont	DH857116A16	HS857116A16	66783	Blank					
	DH857117A16	HH857117A16	66511	SS					
	"	"	66510	SS					
	"	"	66513	522578					
	"	"	66575	522310					
	"	"	66577	522376					
	"	"	66521	522571					

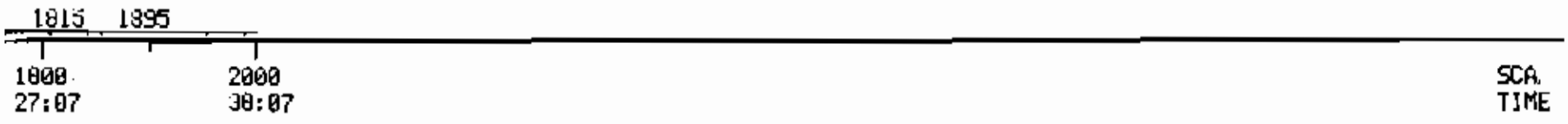

COMPUCHEM LABS
RIC
12/04/85 7:16:00
SAMPLE: 1UL STD 16159 #2365 50NG
CONDS.:
COMPUCHEM DATA: HG851204C15 SCANS 235 TO 1735
OUT OF 235 TO 2000
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
455
605
719
829
571
1191
672
RIC
376
924
1043
983
876
1131
1267
1331
1651
1493
1565
400
600
800
1000
1200
1400
1600
9:02
12:03
15:04
18:04
21:05
24:06

COMPUCHEM LABS

RIC
12/04/85 7:16:00
SAMPLE: 1UL STD 16159 #2365 50NG
CONDS.:

COMPUCHEM DATA: HG851204C15 SCANS 1735 TO 2000
OUT OF 235 TO 2000

802560.



DATA: HQ851204C15.TI
12/04/85 7:16:00
SAMPLE: 1UL STD 16159 #2365 50NG
CONDS. :
SUBMITTED BY: 15 ANALYST: 619

JUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

47 432 FLUORENE (G3#18) <86-73-7>
48 480 4-NITROANILINE (G3#19) <100-01-6>
49 #467 D10-PHENANTHRENE (IS#4)
50 604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51 443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52 414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53 433 HEXACHLOROBENZENE (G4#5) <118-74-1>
4 609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55 444 PHENANTHRENE (G4#7) <85-01-8>
56 403 ANTHRACENE (G4#8) <120-12-7>
57 426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58 431 FLUORANTHENE (G4#10) <206-44-0>
59 #459 D12-CHRYSENE (IS#5)
60 404 BENZIDINE (G5#2) <92-87-5>
61 445 PYRENE (G5#3) <129-00-0>
62 415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63 423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64 405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65 413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66 418 CHRYSENE (G5#8) <218-01-9>
67 #497 D12-PERYLENE (IS#6)
68 429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69 407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70 409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71 406 BENZO(A)PYRENE (G6#5) <50-32-8>
72 437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73 419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74 408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75 #619 2-FLUOROPHENOL (SS#1)
76 #612 D5-PHENOL (SS#2)
77 #447 D5-NITROBENZENE (SS#3)
78 #448 2-FLUOROBIPHENYL (SS#4)
79 #628 2,4,6-TRIBROMOPHENOL (SS#5)
#496 D14-TERPHENYL (SS#6)
81 #471 D10-PYRENE
82 456 1,2,3,4-TETRACHLOROBENZENE

BD 12/4/85

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	152	484	7:17	1	1.000	A BB	74196.	40.000 NG	0.97
2	42	257	3:52	1	0.531	A BV	143420.	50.000 NG	1.21
3	94	455	6:51	1	0.940	A BV	261260.	50.000 NG	1.21
4	93	457	6:53	1	0.944	A BV	180016.	50.000 NG	1.21
5	93	462	6:57	1	0.955	A VV	217576.	50.000 NG	1.21
6	128	467	7:02	1	0.965	A BB	148876.	50.000 NG	1.21
7	146	480	7:14	1	0.992	A BV	148692.	50.000 NG	1.21
8	146	485	7:18	1	1.002	A VB	153052.	50.000 NG	1.21
9	108	497	7:29	1	1.027	A BV	102712.	50.000 NG	1.21
10	146	502	7:34	1	1.037	A BB	140144.	50.000 NG	1.21
11	108	508	7:39	1	1.050	A VV	136708.	50.000 NG	1.21
12	45	512	7:43	1	1.058	A VB	316972.	50.000 NG	1.21
13	108	521	7:51	1	1.076	A VV	153112.	50.000 NG	1.21
14	70	524	7:54	1	1.083	A BV	161428.	50.000 NG	1.21
15	117	531	8:00	1	1.097	A BB	78136.	50.000 NG	1.21
16	77	537	8:05	1	1.110	A BB	193032.	50.000 NG	1.21
17	136	603	9:05	17	1.000	A BB	272312.	40.000 NG	0.97
18	82	559	8:25	17	0.927	A BB	373012.	50.000 NG	1.21

							AREA(HGHT)	AMOUNT		%TOT
19	139	567	8:32	17	0.940	A BB	70104.	50.000	NG	1.21
20	122	571	8:36	17	0.947	A VV	124180.	50.000	NG	1.21
21	122	580	8:44	17	0.962	A VV	68504.	50.000	NG	1.21
22	93	580	8:44	17	0.962	A BB	208100.	50.000	NG	1.21
23	162	590	8:53	17	0.978	A BB	92176.	50.000	NG	1.21
24	180	599	9:01	17	0.993	A BB	100320.	50.000	NG	1.21
25	128	605	9:07	17	1.003	A VV	405660.	50.000	NG	1.21
	127	610	9:11	17	1.012	A BV	130452.	50.000	NG	1.21
27	225	623	9:23	17	1.033	A BB	47648.	50.000	NG	1.21
28	107	657	9:54	17	1.090	A BV	141800.	50.000	NG	1.21
29	142	671	10:06	17	1.113	A BB	223132.	50.000	NG	1.21
30	164	776	11:41	30	1.000	A BB	113552.	40.000	NG	0.97
31	237	694	10:27	30	0.894	A BB	38968.	50.000	NG	1.21
32	196	701	10:33	30	0.903	A*BB	104600. 52300	100.000	NG	2.42
33	196	701	10:33	30	0.903	A*BB	104600. 52300	100.000	NG	2.42
34	162	719	10:50	30	0.927	A BB	192064.	50.000	NG	1.21
35	65	730	11:00	30	0.941	A BB	78872.	50.000	NG	1.21
36	163	752	11:20	30	0.969	A VB	199572.	50.000	NG	1.21
37	152	760	11:27	30	0.979	A BB	282520.	50.000	NG	1.21
38	138	771	11:37	30	0.994	A BB	43976.	50.000	NG	1.21
39	153	779	11:44	30	1.004	A BB	192008.	50.000	NG	1.21
40	184	781	11:46	30	1.006	A BB	11392.	50.000	NG	1.21
41	139	786	11:50	30	1.013	A VV	35848.	50.000	NG	1.21
42	168	794	11:58	30	1.023	A BB	236412.	50.000	NG	1.21
43	89	796	11:59	30	1.026	A VB	67948.	50.000	NG	1.21
44	165	758	11:25	30	0.977	A VB	42568.	50.000	NG	1.21
45	149	760	11:27	30	0.979	A*BB	5652.	50.000	NG	1.21
46	204	828	12:28	30	1.067	A BB	69332.	50.000	NG	1.21
47	166	829	12:29	30	1.068	A BB	187440.	50.000	NG	1.21
48	138	831	12:31	30	1.071	A VV	40684.	50.000	NG	1.21
49	188	921	13:52	49	1.000	A VV	147004.	40.000	NG	0.97
50	198	837	12:36	49	0.909	A BB	16128.	50.000	NG	1.21
51	169	840	12:39	49	0.912	A BB	112832.	50.000	NG	1.21
[illegible]	248	876	13:12	49	0.951	A BB	37200.	50.000	NG	1.21
[illegible]	284	891	13:25	49	0.967	A BB	50768.	50.000	NG	1.21
54	266	908	13:41	49	0.986	A BB	20096.	50.000	NG	1.21
55	178	924	13:55	49	1.003	A BV	225136.	50.000	NG	1.21
56	178	928	13:59	49	1.008	A VV	202888.	50.000	NG	1.21
57	149	983	14:48	49	1.067	A VV	320092.	50.000	NG	1.21
58	202	1043	15:43	49	1.132	A VV	196564.	50.000	NG	1.21
59	240	1187	17:53	59	1.000	A BV	103384.	40.000	NG	0.97
60	184	1080	16:16	59	0.910	A BB	2064.	50.000	NG	1.21
61	202	1065	16:02	59	0.897	A VV	204948.	50.000	NG	1.21
62	149	1131	17:02	59	0.953	A VV	113572.	50.000	NG	1.21
63	252	1181	17:47	59	0.995	A BB	39300.	50.000	NG	1.21
64	228	1185	17:51	59	0.998	A VV	158904.	50.001	NG	1.21
65	149	1191	17:56	59	1.003	A VV	179328.	50.000	NG	1.21
66	228	1190	17:55	59	1.003	A VV	154440.	50.001	NG	1.21
67	264	1398	21:03	67	1.000	A BB	99648.	40.000	NG	0.97
68	149	1267	19:05	67	0.906	A VV	315160.	50.000	NG	1.21
69	252	1331	20:06	67	0.955	A VV	173215 ~~133228~~ 66414	50.000	NG	1.21
70	252	1335	20:06	67	0.955	A VV	131247 ~~133228~~ 66414	50.000	NG	1.21
71	252	1388	20:54	67	0.993	A BV	143940.	50.000	NG	1.21
72	276	1646	24:47	67	1.177	A BB	189695.	50.000	NG	1.21
73	278	1652	24:53	67	1.182	A BB	155152.	50.000	NG	1.21
74	276	1723	25:57	67	1.232	A BB	162919.	50.000	NG	1.21

							AREA(HGHT)	AMOUNT		%TOT
75	112	376	5:40	1	0.777	A BB	160732.	50.000	NG	1.21
76	99	454	6:50	1	0.938	A BB	225996.	50.000	NG	1.21
77	82	536	8:04	17	0.889	A BB	187600.	50.000	NG	1.21
78	172	709	10:41	30	0.914	A BB	197212.	50.000	NG	1.21
79	141	854	12:52	30	1.101	A BV	13000.	50.000	NG	1.21
80	244	1080	16:16	59	0.910	A BV	125984.	50.000	NG	1.21
81	212	1064	16:01	59	0.896	A VV	175556.	50.000	NG	1.21
82	216	720	10:51	17	1.194	A BB	72000.	50.000	NG	1.21

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:52	1.00	10.000	0.05	50.00	50.00	1.546	1.546	1.00
3	6:51	1.00	10.000	0.09	50.00	50.00	2.817	2.817	1.00
4	6:53	1.00	10.000	0.09	50.00	50.00	1.941	1.941	1.00
5	6:57	1.00	10.000	0.10	50.00	50.00	2.346	2.346	1.00
6	7:02	1.00	10.000	0.10	50.00	50.00	1.605	1.605	1.00
7	7:14	1.00	10.000	0.10	50.00	50.00	1.603	1.603	1.00
8	7:18	1.00	10.000	0.10	50.00	50.00	1.650	1.650	1.00
9	7:29	1.00	10.000	0.10	50.00	50.00	1.107	1.107	1.00
10	7:34	1.00	10.000	0.10	50.00	50.00	1.511	1.511	1.00
11	7:39	1.00	10.000	0.10	50.00	50.00	1.474	1.474	1.00
12	7:43	1.00	10.000	0.11	50.00	50.00	3.418	3.418	1.00
13	7:51	1.00	10.000	0.11	50.00	50.00	1.651	1.651	1.00
14	7:54	1.00	10.000	0.11	50.00	50.00	1.741	1.741	1.00
15	8:00	1.00	10.000	0.11	50.00	50.00	0.842	0.842	1.00
16	8:05	1.00	10.000	0.11	50.00	50.00	2.081	2.081	1.00
17	9:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:25	1.00	10.000	0.09	50.00	50.00	1.096	1.096	1.00
19	8:32	1.00	10.000	0.09	50.00	50.00	0.206	0.206	1.00
20	8:36	1.00	10.000	0.09	50.00	50.00	0.365	0.365	1.00
21	8:44	1.00	50.000	0.02	50.00	50.00	0.201	0.201	1.00
22	8:44	1.00	10.000	0.10	50.00	50.00	0.611	0.611	1.00
3	8:53	1.00	10.000	0.10	50.00	50.00	0.271	0.271	1.00
,	9:01	1.00	10.000	0.10	50.00	50.00	0.295	0.295	1.00
25	9:07	1.00	10.000	0.10	50.00	50.00	1.192	1.192	1.00
26	9:11	1.00	10.000	0.10	50.00	50.00	0.383	0.383	1.00
27	9:23	1.00	10.000	0.10	50.00	50.00	0.140	0.140	1.00
28	9:54	1.00	10.000	0.11	50.00	50.00	0.417	0.417	1.00
29	10:06	1.00	10.000	0.11	50.00	50.00	0.656	0.656	1.00
30	11:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:27	1.00	10.000	0.09	50.00	50.00	0.275	0.275	1.00
32	10:33	1.00	10.000	0.09	100.00	100.00	0.368	0.368	1.00
33	10:33	1.00	50.000	0.02	100.00	100.00	0.368	0.368	1.00
34	10:50	1.00	10.000	0.09	50.00	50.00	1.353	1.353	1.00
35	11:00	1.00	50.000	0.02	50.00	50.00	0.556	0.556	1
36	11:20	1.00	10.000	0.10	50.00	50.00	1.406	1.406	
37	11:27	1.00	10.000	0.10	50.00	50.00	1.990	1.990	
38	11:37	1.00	50.000	0.02	50.00	50.00	0.310	0.310	
39	11:44	1.00	10.000	0.10	50.00	50.00	1.353	1.353	
40	11:46	1.00	50.000	0.02	50.00	50.00	0.080	0	
41	11:50	1.00	50.000	0.02	50.00	50.00	0.253		
42	11:58	1.00	10.000	0.10	50.00	50.00	1.64		
43	11:59	1.00	10.000	0.10	50.00	50.00	0.		
44	11:25	1.00	10.000	0.10	50.00	50.00	0		
45	11:27	1.00	10.000	0.10	50.00	50.00		040	
46	12:28	1.00	10.000	0.11	50.00	50.00		48	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
47	12:29	1.00	10.000	0.11	50.00	50.00	1.321	1.321	1.00
48	12:31	1.00	50.000	0.02	50.00	50.00	0.287	0.287	1.00
49	13:52	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:36	1.00	50.000	0.02	50.00	50.00	0.088	0.088	1.00
51	12:39	1.00	10.000	0.09	50.00	50.00	0.614	0.614	1.00
52	13:12	1.00	10.000	0.10	50.00	50.00	0.202	0.202	1.00
53	13:25	1.00	10.000	0.10	50.00	50.00	0.276	0.276	1.00
54	12:45	1.07	50.000	0.02	50.00	50.00	0.109	0.109	1.00
55	13:55	1.00	10.000	0.10	50.00	50.00	1.225	1.225	1.00
56	13:59	1.00	10.000	0.10	50.00	50.00	1.104	1.104	1.00
57	14:48	1.00	10.000	0.11	50.00	50.00	1.742	1.742	1.00
58	15:43	1.00	10.000	0.11	50.00	50.00	1.070	1.070	1.00
59	17:53	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:16	1.00	50.000	0.02	50.00	50.00	0.016	0.016	1.00
61	16:02	1.00	10.000	0.09	50.00	50.00	1.586	1.586	1.00
62	17:02	1.00	10.000	0.10	50.00	50.00	0.879	0.879	1.00
63	17:47	1.00	20.000	0.05	50.00	50.00	0.304	0.304	1.00
64	17:51	1.00	10.000	0.10	50.00	50.00	1.230	1.230	1.00
65	17:56	1.00	10.000	0.10	50.00	50.00	1.388	1.388	1.00
66	17:55	1.00	10.000	0.10	50.00	50.00	1.195	1.195	1.00
67	21:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:05	1.00	10.000	0.09	50.00	50.00	2.530	2.530	1.00
69	20:06	1.00	10.000	0.10	50.00	50.00	1.070	1.070	1.00
70	20:06	1.00	10.000	0.10	50.00	50.00	1.070	1.070	1.00
71	20:54	1.00	10.000	0.10	50.00	50.00	1.156	1.156	1.00
72	24:47	1.00	10.000	0.12	50.00	50.00	1.523	1.523	1.00
73	24:53	1.00	10.000	0.12	50.00	50.00	1.246	1.246	1.00
74	25:57	1.00	10.000	0.12	50.00	50.00	1.308	1.308	1.00
75	5:40	1.00	0.742	1.05	50.00	50.00	1.733	1.733	1.00
76	6:50	1.00	0.948	0.99	50.00	50.00	2.437	2.437	1.00
77	8:04	1.00	0.875	1.02	50.00	50.00	0.551	0.551	1.00
78	10:41	1.00	0.906	1.01	50.00	50.00	1.389	1.389	1.00
79	12:52	1.00	1.118	0.98	50.00	50.00	0.092	0.092	1.00
80	16:16	1.00	0.907	1.00	50.00	50.00	0.975	0.975	1.00
81	16:01	1.00	10.000	0.09	50.00	50.00	1.358	1.358	1.00
82	10:51	1.00	10.000	0.12	50.00	50.00	0.212	0.212	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 7:04
Time Tune Expires 19:04
Shift(s) (A) ___ (B) ___
Date 12-4-85
Analysis Type SEMI

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1		DH851204C15		12/4/85	6:20	DFTPP		1ul	619		3038	705# - 51 low
2		DI851204C15		12/4/85	6:43	"		1ul	619		3038	705. - 11 HIGH
3		RETUNED		/ /	:							
4		DJ851204C15		12/4/85	7:04	DFTPP		1ul	619		3038	705
5		HG851204C15		12/4/85	7:14	STD		1ul	619		3034	50NG
6		SC851204A15		/ /	:			1ul	740		3034	
7		GH068985A15		/ /	9:28	BS	Comm	1ul	740		3034	
8		GH068989A15		/ /	10:17	BS	Comm	1ul	740		3034	
9		GH067543A15		/ /	11:30		Comm	"	"		"	
10		GH067582A15		/ /	12:28		Comm	"	"		3034	
11		GH068033A15		" /	13:13		Comm	"	"		"	
12		GH068038A15		/ /	15:25			1ul	740		3034	
13		GH067812B15		12/4/85	16:03	BD732	5160	1 µl	803		3034	
14		GH066806B15		12/4/85	16:48	SS1	5160	1 µl	803		3034	
15		GH069657B15		12/4/85	17:20	GN1	URS	1 µl	803		3034	
16		GR066513B15		12/4/85	18:02	52237-1F	URS	1 µl	803		3034	
17		GH068807B15		12/4/85	18:49	SS2	5160	1 µl	803		3034	
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				/ /	:							

8pm 12/4/85

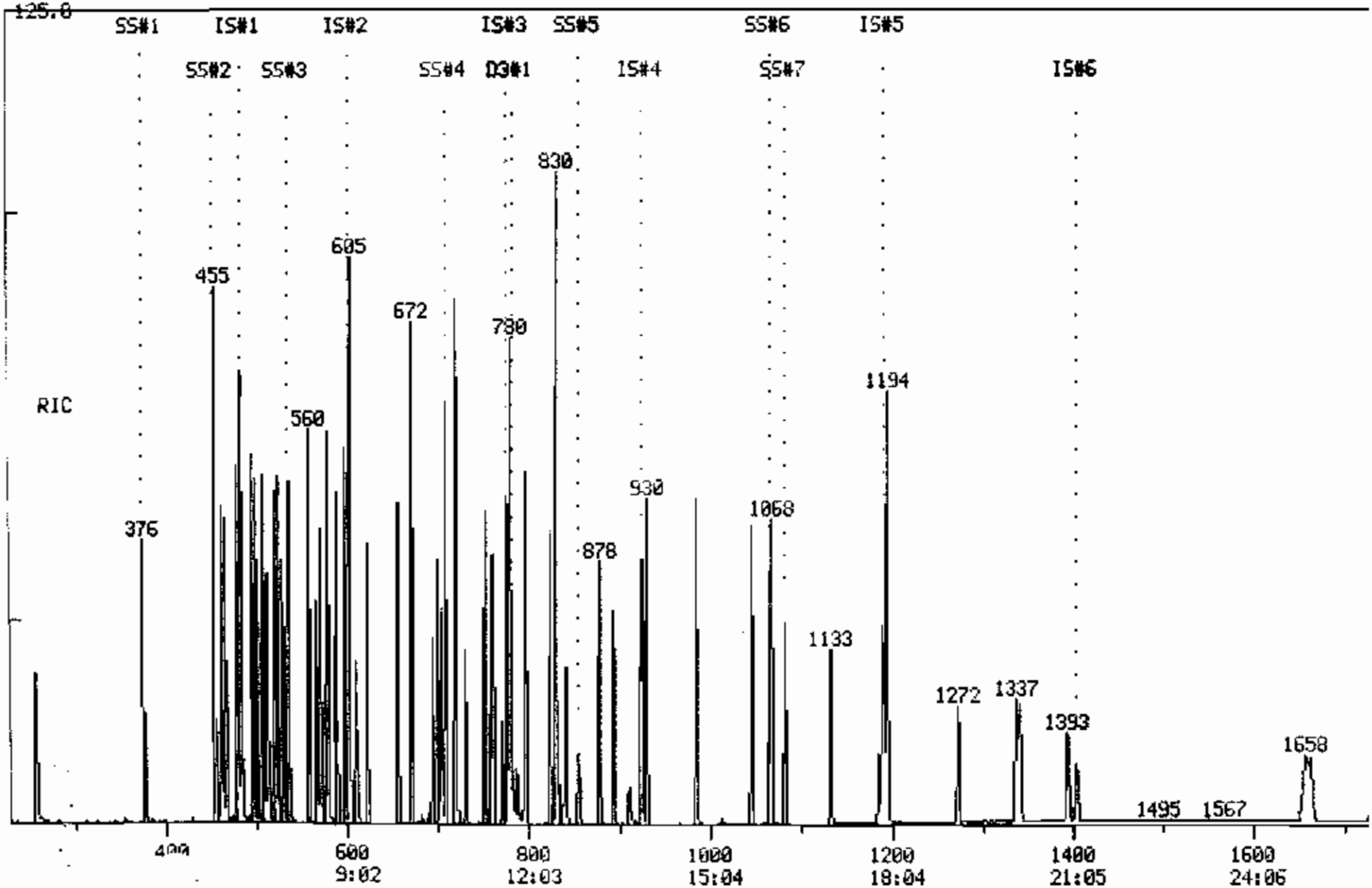
ENTERED 12/5/85

Press Hard, Multiple Copies

COMPUCHEM LABS

RIC
12/04/85 22:01:00
SAMPLE: 1 UL STD LOT #16159(2365-50)
CONDS.:

COMPUCHEM DATA: HG851204B15 SCANS 227 TO 1727
OUT OF 227 TO 1850



COMPUCHEM LABS

RIC
12/04/85 22:01:00
SAMPLE: 1 UL STD LOT #16159(2385-50)
CONDS.1

COMPUCHEM DATA: HQ851204B15 SCANS 1727 TO 1858
OUT OF 227 TO 1850

1843200.

1800
27:07

SCAN
TIME

DATA: HG851204B15.TI
12/04/85 22:01:00
SAMPLE: 1 UL STD LOT #16159(2365-50)
CONDS. :
SUBMITTED BY: 15 ANALYST: 903

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLORDBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUORODIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	484	7:17	1	1.000	A BB	88720.	40.000	NG	0.94
2	42	257	3:52	1	0.531	A BV	134380.	50.000	NG	1.18
3	94	455	6:51	1	0.940	A BV	262432.	50.000	NG	1.18
4	93	462	6:57	1	0.955	A BB	378328.	100.000	NG	2.36
5	93	462	6:57	1	0.955	A BB	378328.	100.000	NG	2.36
6	128	468	7:03	1	0.967	A BB	175864.	50.000	NG	1.18
7	146	481	7:15	1	0.994	A BV	177744.	50.000	NG	1.18
8	146	485	7:18	1	1.002	A VB	189440.	50.000	NG	1.18
9	108	497	7:29	1	1.027	A BV	105324.	50.000	NG	1.18
10	146	502	7:34	1	1.037	A BB	164648.	50.000	NG	1.18
11	108	509	7:40	1	1.052	A BV	146840.	50.000	NG	1.18
12	45	513	7:44	1	1.060	A VB	343900.	50.000	NG	1.18
13	108	522	7:52	1	1.079	A BB	166676.	50.000	NG	1.18
14	70	525	7:54	1	1.085	A VB	167452.	50.000	NG	1.18
15	117	531	8:00	1	1.097	A BB	90116.	50.000	NG	1.18
16	77	538	8:06	1	1.112	A BV	219256.	50.000	NG	1.18
17	136	603	9:05	17	1.000	A BB	318184.	40.000	NG	0.94
18	82	560	8:26	17	0.929	A BB	393472.	50.000	NG	1.18

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	568	8:33	17	0.942	A BB	80056.	50.000	NG	1.18
20	122	571	8:36	17	0.947	A*BV	135564.	50.000	NG	1.18
21	122	580	8:44	17	0.962	A VV	69692.	50.000	NG	1.18
22	93	581	8:45	17	0.964	A BB	226864.	50.000	NG	1.18
23	162	590	8:53	17	0.978	A BB	109572.	50.000	NG	1.18
24	180	599	9:01	17	0.993	A BB	126112.	50.000	NG	1.18
25	128	605	9:07	17	1.003	A BB	449752.	50.000	NG	1.18
26	127	612	9:13	17	1.015	A BB	112596.	50.000	NG	1.18
27	225	623	9:23	17	1.033	A BB	63420.	50.000	NG	1.18
28	107	657	9:54	17	1.090	A BV	144604.	50.000	NG	1.18
29	142	672	10:07	17	1.114	A BB	255572.	50.000	NG	1.18
30	164	777	11:42	30	1.000	A BB	139176.	40.000	NG	0.94
31	237	695	10:28	30	0.894	A BB	49528.	50.000	NG	1.18
32	196	705	10:37	30	0.907	A*BB 61958	123916.	100.000	NG	2.36
33	196	705	10:37	30	0.907	A*BB 61958	123916.	100.000	NG	2.36
34	162	720	10:51	30	0.927	A BB	226276.	50.000	NG	1.18
35	65	731	11:01	30	0.941	A BB	74568.	50.000	NG	1.18
36	163	753	11:20	30	0.969	A BB	244364.	50.000	NG	1.18
37	152	761	11:28	30	0.979	A BB	311368.	50.000	NG	1.18
38	138	772	11:38	30	0.994	A BB	34476.	50.000	NG	1.18
39	153	780	11:45	30	1.004	A BB	216400.	50.000	NG	1.18
40	184	782	11:47	30	1.006	A BV	12952.	50.000	NG	1.18
41	139	787	11:51	30	1.013	A BV	29824.	50.000	NG	1.18
42	168	796	11:59	30	1.024	A BB	274196.	50.000	NG	1.18
43	89	798	12:01	30	1.027	A BB	68048.	50.000	NG	1.18
44	165	759	11:26	30	0.977	A BB	45724.	50.000	NG	1.18
45	149	761	11:28	30	0.979	A*BB	5592.	50.000	NG	1.18
46	204	830	12:30	30	1.068	A BB	88044.	50.000	NG	1.18
47	166	830	12:30	30	1.068	A BB	200816.	50.000	NG	1.18
48	138	833	12:33	30	1.072	A*BB	36092.	50.000	NG	1.18
49	188	923	13:54	49	1.000	A BV	187428.	40.000	NG	0.94
50	198	838	12:37	49	0.908	A BB	19344.	50.000	NG	1.18
51	169	841	12:40	49	0.911	A*BB	93680.	50.000	NG	1.18
52	248	878	13:13	49	0.951	A BB	50200.	50.000	NG	1.18
53	264	893	13:27	49	0.967	A BB	72188.	50.000	NG	1.18
54	266	910	13:42	49	0.986	A BV	20476.	50.000	NG	1.18
55	178	925	13:56	49	1.002	A BV	262964.	50.000	NG	1.18
56	178	930	14:00	49	1.008	A VB	245224.	50.000	NG	1.18
57	149	985	14:50	49	1.067	A BV	373932.	50.000	NG	1.18
58	202	1045	15:44	49	1.132	A BV	234904.	50.000	NG	1.18
59	240	1151	17:56	59	1.000	A BB	121840.	40.000	NG	0.94
60	184	1083	16:19	59	0.909	A BB	1780.	50.000	NG	1.18
61	202	1068	16:05	59	0.897	A BV	244240.	50.000	NG	1.18
62	149	1133	17:04	59	0.951	A BV	119820.	50.000	NG	1.18
63	252	1185	17:51	59	0.995	A BB	39812.	50.000	NG	1.18
64	228	1189	17:54	59	0.998	A BV	190196.	50.001	NG	1.18
65	149	1194	17:59	59	1.003	A BB	164672.	50.000	NG	1.18
66	228	1193	17:58	59	1.002	A VV	181360.	50.001	NG	1.18
67	264	1404	21:09	67	1.000	A BB	99576.	40.000	NG	0.94
68	149	1272	19:09	67	0.906	A*BB	311600.	50.000	NG	1.18
69	252	1337	20:08	67	0.952	A BV	206412.	50.000	NG	1.18
70	252	1341	20:12	67	0.955	A VB	143681.	50.000	NG	1.18
71	252	1393	20:59	67	0.992	A BV	150184.	50.000	NG	1.18
72	276	1658	24:58	67	1.181	A BB	192900.	50.000	NG	1.18
73	278	1663	25:03	67	1.184	A BV	156428.	50.000	NG	1.18
74	276	1734	26:07	67	1.235	A BB	154356.	50.000	NG	1.18

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	376	5:40	1	0.777	A BB	186068.	50.000 NG	1.18
76	99	454	6:50	1	0.938	A BB	242064.	50.000 NG	1.18
77	82	536	8:04	17	0.889	A BB	208396.	50.000 NG	1.18
78	172	710	10:42	30	0.914	A BB	241068.	50.000 NG	1.18
79	141	856	12:54	30	1.102	A BB	13216.	50.000 NG	1.18
2	244	1083	16:19	59	0.909	A BB	165152.	50.000 NG	1.18
1	212	1066	16:03	59	0.895	A BV	219620.	50.000 NG	1.18
82	216	721	10:52	17	1.196	A BB	89348.	50.000 NG	1.18

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:52	1.00	10.000	0.05	50.00	50.00	1.212	1.212	1.00
3	6:51	1.00	10.000	0.09	50.00	50.00	2.366	2.366	1.00
4	6:57	1.00	10.000	0.10	100.00	100.00	1.706	1.706	1.00
5	6:57	1.00	10.000	0.10	100.00	100.00	1.706	1.706	1.00
6	7:03	1.00	10.000	0.10	50.00	50.00	1.586	1.586	1.00
7	7:15	1.00	10.000	0.10	50.00	50.00	1.603	1.603	1.00
8	7:18	1.00	10.000	0.10	50.00	50.00	1.708	1.708	1.00
9	7:29	1.00	10.000	0.10	50.00	50.00	0.950	0.950	1.00
10	7:34	1.00	10.000	0.10	50.00	50.00	1.485	1.485	1.00
11	7:40	1.00	10.000	0.11	50.00	50.00	1.324	1.324	1.00
12	7:44	1.00	10.000	0.11	50.00	50.00	3.101	3.101	1.00
13	7:52	1.00	10.000	0.11	50.00	50.00	1.503	1.503	1.00
14	7:54	1.00	10.000	0.11	50.00	50.00	1.510	1.510	1.00
15	8:00	1.00	10.000	0.11	50.00	50.00	0.813	0.813	1.00
16	8:06	1.00	10.000	0.11	50.00	50.00	1.977	1.977	1.00
17	9:05	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:26	1.00	10.000	0.09	50.00	50.00	0.989	0.989	1.00
19	8:33	1.00	10.000	0.09	50.00	50.00	0.201	0.201	1.00
20	8:36	1.00	10.000	0.09	50.00	50.00	0.341	0.341	1.00
21	8:44	1.00	50.000	0.02	50.00	50.00	0.175	0.175	1.00
22	8:45	1.00	10.000	0.10	50.00	50.00	0.570	0.570	1.00
23	8:53	1.00	10.000	0.10	50.00	50.00	0.275	0.275	1.00
24	9:01	1.00	10.000	0.10	50.00	50.00	0.317	0.317	1.00
25	9:07	1.00	10.000	0.10	50.00	50.00	1.131	1.131	1.00
26	9:13	1.00	10.000	0.10	50.00	50.00	0.283	0.283	1.00
27	9:23	1.00	10.000	0.10	50.00	50.00	0.159	0.159	1.00
28	9:54	1.00	10.000	0.11	50.00	50.00	0.364	0.364	1.00
29	10:07	1.00	10.000	0.11	50.00	50.00	0.643	0.643	1.00
30	11:42	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:28	1.00	10.000	0.09	50.00	50.00	0.285	0.285	1.00
32	10:37	1.00	10.000	0.09	100.00	100.00	0.356	0.356	1.00
33	10:37	1.00	50.000	0.02	100.00	100.00	0.356	0.356	1.00
34	10:51	1.00	10.000	0.09	50.00	50.00	1.301	1.301	1.00
35	11:01	1.00	50.000	0.02	50.00	50.00	0.429	0.429	1.00
36	11:20	1.00	10.000	0.10	50.00	50.00	1.405	1.405	1.00
37	11:28	1.00	10.000	0.10	50.00	50.00	1.790	1.790	1.00
38	11:38	1.00	50.000	0.02	50.00	50.00	0.198	0.198	1.00
39	11:45	1.00	10.000	0.10	50.00	50.00	1.244	1.244	1.00
40	11:47	1.00	50.000	0.02	50.00	50.00	0.074	0.074	1.00
41	11:51	1.00	50.000	0.02	50.00	50.00	0.171	0.171	1.00
42	11:59	1.00	10.000	0.10	50.00	50.00	1.576	1.576	1.00
43	12:01	1.00	10.000	0.10	50.00	50.00	0.391	0.391	1.00
44	11:26	1.00	10.000	0.10	50.00	50.00	0.263	0.263	1.00
45	11:28	1.00	10.000	0.10	50.00	50.00	0.032	0.032	1.00
46	12:30	1.00	10.000	0.11	50.00	50.00	0.506	0.506	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	12:30	1.00	10.000	0.11	50.00	50.00	1.154	1.154	1.00
48	12:33	1.00	50.000	0.02	50.00	50.00	0.207	0.207	1.00
49	13:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:37	1.00	50.000	0.02	50.00	50.00	0.083	0.083	1.00
51	12:40	1.00	10.000	0.09	50.00	50.00	0.400	0.400	1.00
52	13:13	1.00	10.000	0.10	50.00	50.00	0.214	0.214	1.00
53	13:27	1.00	10.000	0.10	50.00	50.00	0.308	0.308	1.00
54	13:42	1.00	50.000	0.02	50.00	50.00	0.087	0.087	1.00
55	13:56	1.00	10.000	0.10	50.00	50.00	1.122	1.122	1.00
56	14:00	1.00	10.000	0.10	50.00	50.00	1.047	1.047	1.00
57	14:50	1.00	10.000	0.11	50.00	50.00	1.596	1.596	1.00
58	15:44	1.00	10.000	0.11	50.00	50.00	1.003	1.003	1.00
59	17:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:19	1.00	50.000	0.02	50.00	50.00	0.012	0.012	1.00
61	16:05	1.00	10.000	0.09	50.00	50.00	1.604	1.604	1.00
62	17:04	1.00	10.000	0.10	50.00	50.00	0.787	0.787	1.00
63	17:51	1.00	20.000	0.05	50.00	50.00	0.261	0.261	1.00
64	17:54	1.00	10.000	0.10	50.00	50.00	1.249	1.249	1.00
65	17:59	1.00	10.000	0.10	50.00	50.00	1.081	1.081	1.00
66	17:58	1.00	10.000	0.10	50.00	50.00	1.191	1.191	1.00
67	21:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:09	1.00	10.000	0.09	50.00	50.00	2.503	2.503	1.00
69	20:08	1.00	10.000	0.10	50.00	50.00	1.658	1.658	1.00
70	20:12	1.00	10.000	0.10	50.00	50.00	1.154	1.154	1.00
71	20:59	1.00	10.000	0.10	50.00	50.00	1.207	1.207	1.00
72	24:58	1.00	10.000	0.12	50.00	50.00	1.550	1.550	1.00
73	25:03	1.00	10.000	0.12	50.00	50.00	1.257	1.257	1.00
74	26:07	1.00	10.000	0.12	50.00	50.00	1.240	1.240	1.00
75	5:40	1.00	0.742	1.05	50.00	50.00	1.678	1.678	1.00
76	6:50	1.00	0.948	0.99	50.00	50.00	2.183	2.183	1.00
77	8:04	1.00	0.875	1.02	50.00	50.00	0.524	0.524	1.00
78	10:42	1.00	0.906	1.01	50.00	50.00	1.386	1.386	1.00
79	12:54	1.00	1.118	0.99	50.00	50.00	0.076	0.076	1.00
80	16:19	1.00	0.907	1.00	50.00	50.00	1.084	1.084	1.00
81	16:03	1.00	10.000	0.09	50.00	50.00	1.442	1.442	1.00
82	10:52	1.00	10.000	0.12	50.00	50.00	0.225	0.225	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 2146 Shift(s) (A) ____ (B) ✓ (C) ____
Time Tune Expires 0946 Date 12/4/85
Analysis Type SV

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1	✓	DH851204B15		12/4/85	21:24	DFTPP	—	1µl	803		3036	7050 retune
2		DI851204B15		12/4/85	21:46	DFTPP	—	1µl	803		3036	7050
3		HG851204B15		12/4/85	22:01	std	—	1µl	803		3036	2365-50
4		SC851204B15		12/4/85	22:52	—	—	1µl	803		3036	392
5		GRJ66513B15		12/4/85	23:24	52237-E	WES	1µl	803		3036	
6		GH068913C15		12/5/85	0:08	BM1	EC 3003	1ml	WG9		3036	
7		GH067999C15		12/5/85	0:52	53	"	1ml	WG9		3036	
8		GH068000C15		12/5/85	1:24	55	"	1ml	WG9		3036	
9		GH067992C15		12/5/85	1:56	71615	"	1ml	WG9		3036	
10		GH068004C15		12/5/85	2:36	81070	"	1ml	WG9		3036	
11		GH068005C15		12/5/85	3:08	81067	"	1ml	WG9		3036	
12		GH068007C15		12/5/85	3:53	91158	"	1ml	WG9		3036	
13		GH068008C15		12/5/85	4:32	91150	"	1ml	WG9		3036	
14		GH068009C15		12/5/85	5:07	81105	"	1ml	WG9		3036	
15		GH068010C15		12/5/85	5:39	81100	"	1ml	WG9		3036	
16		GH068011C15		12/5/85	6:21	101450	"	1ml	WG9		3036	
17		GH068012C15		12/5/85	6:55	81065	"	1ml	WG9		3036	
18		GH068013C15		12/5/85	7:31	81060	"	1ml	WG9		3036	
19				/ /	:							
20				/ /	:							
21				/ /	:							
22				/ /	:							
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

CONTINUED

12/5/85

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 5:39
Time Tune Expires 17:39

Shift(s) (A) ___ (B) ___ (C) ___
Date 11-17-85
Analysis Type SEMI

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1		DH851117A16		11/17/85	:			1.0ml	644		2780	#7050
2				/	Returned and recalibrated							
3		DH851117A16		11/17/85	5:39			1.0ml	644		2780	#7050
4		HG851117A16		11/11	16:06			1.0ml	644		2780	#2365 SONG. std.
5		CH851117A16		11/11	6:55			1.0ml	644		2780	#392
6		HH851117A16		11/11	7:30			1.0ml	644		2780	
7		GH066518A16		11/11	9:19	~~55/271-356~~ 55	URS	1.0ml	644		2780	#66511 (S.S.) OK
8		GH066510A16		11/11	10:15	55/271-356	URS	1.0ml	644		2780	#66510 OK
9	CL	GH066513A16		11/11	10:58	52237-E	URS	1.0ml	644		2780	#66513 Qtty re-Related
10		GH066515A16		11/11	11:38	52237-D	"	"	675		"	OK
11		GH066517A16		11/11	12:18	52237-C	"	"	"		"	OK
12		GH066521A16		11/11	13:06	52237-B	"	"	"		"	OK
13		GH066556A16		11/11	13:51	BL#1	4924	"	"		"	unknown peaks
14		GH066557A16		11/11	14:34	BL#2	"	"	"		"	OK
15		GH066583A16		11/11	15:26	~~55 427~~ SS 426	"	"	"		"	OK
16		GH066649A16		11/11	16:03	BC477	"	"	"		"	
17		Out of Disk Space		/ /	:							
18				/ /	:							
19				/ /	:							
20				/ /	:							
21				/ /	:							
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26				/ /	:							

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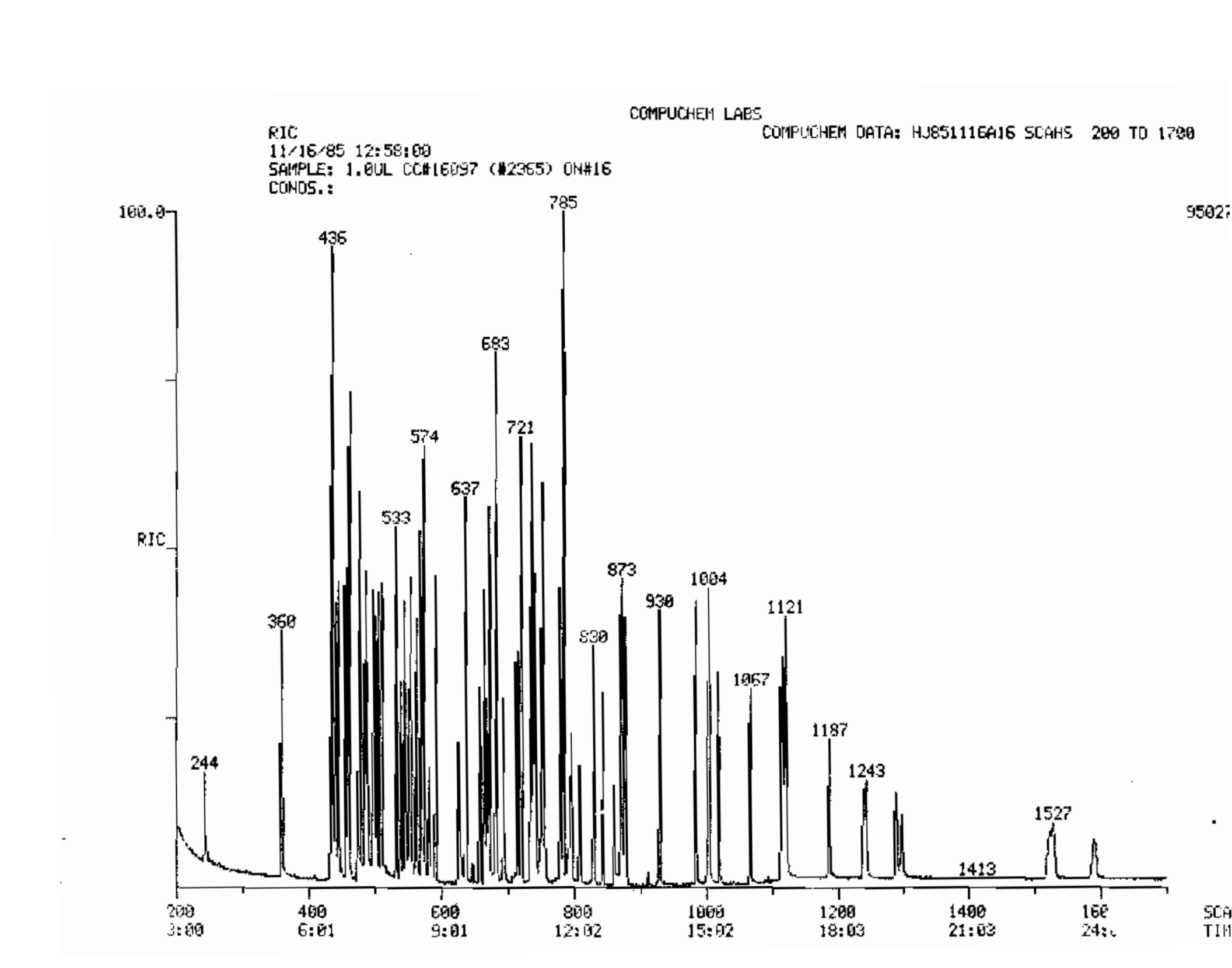
COMPUCHEM LABS
RIC
11/16/85 12:58:00
SAMPLE: 1.00L CC#16097 (#2365) ON#16
CONDS.:
COMPUCHEM DATA: HJ851116A16 SCANS 200 TO 1700
100.0
95027
RIC
785
436
683
574
721
637
533
873
1004
930
1121
360
930
1067
1187
244
1243
1527
1413
200
3:00
400
6:01
600
9:01
800
12:02
1000
15:02
1200
18:03
1400
21:03
160
24:
SCA
TIM

QUANTITATION REPORT FILE: HJ851116A16

DATA: HJ851116A16.TI
11/16/85 12:58:00
FILE: 1.0UL CC#16097 (#2365) ON#16
COMMENTS:
SUBMITTED BY: 16 ANALYST: 644

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	461	6:56	1	1.000	A DV	113468.	40.000 NG	0.92
2	42	244	3:40	1	0.529	A BV	82353.	50.000 NG	1.15
3	94	436	6:33	1	0.946	A BV	305020.	50.000 NG	1.15
4	93	436	6:33	1	0.946	A BV	281963.	50.000 NG	1.15
5	93	442	6:39	1	0.959	A VV	250600.	50.000 NG	1.15
6	128	446	6:42	1	0.967	A BV	211268.	50.000 NG	1.15
7	146	457	6:52	1	0.991	A BV	227392.	50.000 NG	1.15
8	146	462	6:57	1	1.002	A VV	252460.	50.000 NG	1.15
9	108	475	7:09	1	1.030	A*BV	41574.	50.000 NG	1.15
10	146	478	7:11	1	1.037	A VV	222144.	50.000 NG	1.15
11	108	486	7:18	1	1.054	A VV	214468.	50.000 NG	1.15
12	45	489	7:21	1	1.061	A BB	262612.	50.000 NG	1.15
13	108	498	7:29	1	1.080	A VV	231564.	50.000 NG	1.15
14	70	500	7:31	1	1.085	A BV	173968.	50.000 NG	1.15
15	117	505	7:36	1	1.095	A BB	99056.	50.000 NG	1.15
	77	512	7:42	1	1.111	A VV	238994.	50.000 NG	1.15
	136	573	8:37	17	1.000	A BV	392412.	40.000 NG	0.92
18	82	533	8:01	17	0.930	A VV	450160.	50.000 NG	1.15

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	540	8:07	17	0.942	A BV	97564.	50.000	NG	1.15
20	122	545	8:12	17	0.951	A VV	166588.	50.000	NG	1.15
21	122	556	8:22	17	0.970	A VV	110608.	50.000	NG	1.15
22	93	553	8:19	17	0.965	A VV	233908.	50.000	NG	1.15
23	162	562	8:27	17	0.981	A BV	144056.	50.000	NG	1.15
24	180	569	8:33	17	0.993	A BB	165056.	50.000	NG	1.15
25	128	574	8:38	17	1.002	A BV	528100.	50.000	NG	1.15
26	127	581	8:44	17	1.014	A VV	140028.	50.000	NG	1.15
27	225	592	8:54	17	1.033	A BB	78140.	50.000	NG	1.15
28	107	626	9:25	17	1.092	A BV	170228.	50.000	NG	1.15
29	142	637	9:35	17	1.112	A VV	321788.	50.000	NG	1.15
30	164	735	11:03	30	1.000	A BB	175764.	40.000	NG	0.92
31	237	659	9:55	30	0.897	A BB	57456.	50.000	NG	1.15
32	196	666	10:01	30	0.906	A*BV	159848. 79924	100.000	NG	2.30
33	196	666	10:01	30	0.906	A*BV	159848. 79924	100.000	NG	2.30
34	162	682	10:15	30	0.928	A BV	288212.	50.000	NG	1.15
35	65	694	10:26	30	0.944	A BV	101256.	50.000	NG	1.15
36	163	714	10:44	30	0.971	A VB	262548.	50.000	NG	1.15
37	152	721	10:50	30	0.981	A BV	393336.	50.000	NG	1.15
38	138	733	11:01	30	0.997	A VV	25464.	50.000	NG	1.15
39	153	738	11:06	30	1.004	A BB	275344.	50.000	NG	1.15
40	184	742	11:09	30	1.010	A BV	23576.	50.000	NG	1.15
41	139	~~759~~	11:19	30	1.024	A VV	~~[illegible]~~	50.000	NG	1.15
42	168	753	11:19	30	1.024	A BV	346152.	50.000	NG	1.15
43	89	756	11:22	30	1.029	A*BV	81192.	50.000	NG	1.15
44	165	720	10:50	30	0.980	A VB	59648.	50.000	NG	1.15
45	149	780	11:44	30	1.061	A BV	287356.	50.000	NG	1.15
46	204	785	11:48	30	1.068	A BB	103384.	50.000	NG	1.15
47	166	785	11:48	30	1.068	A BV	263340.	50.000	NG	1.15
48	138	790	11:53	30	1.075	A VV	32684.	50.000	NG	1.15
9	188	871	13:06	49	1.000	A BB	198964.	40.000	NG	0.92
50	198	794	11:56	49	0.912	A BB	25500.	50.000	NG	1.15
51	169	796	11:58	49	0.914	A*BB	124784.	50.000	NG	1.15
52	248	830	12:29	49	0.953	A BB	51548.	50.000	NG	1.15
53	284	843	12:41	49	0.968	A BB	56616.	50.000	NG	1.15
54	266	860	12:56	49	0.987	A BV	25116.	50.000	NG	1.15
55	178	873	13:08	49	1.002	A BV	305800.	50.000	NG	1.15
56	178	877	13:11	49	1.007	A VV	287140.	50.000	NG	1.15
57	149	930	13:59	49	1.068	A VV	368508.	50.000	NG	1.15
58	202	984	14:48	49	1.130	A VV	245828.	50.000	NG	1.15
59	240	1116	16:47	59	1.000	A BV	86296.	40.000	NG	0.92
60	184	1003	15:05	59	0.899	A BB	3340.	50.000	NG	1.15
61	202	1004	15:06	59	0.900	A VV	237052.	50.000	NG	1.15
62	149	1067	16:03	59	0.956	A BV	119664.	50.000	NG	1.15
63	252	1112	16:43	59	0.996	A BV	21724.	50.000	NG	1.15
64	228	1118	16:49	59	1.002	A VV	[illegible] 143877	[illegible]	NG	2.30
65	149	1121	16:51	59	1.004	A VV	176996.	50.000	NG	1.15
66	228	1118	16:49	59	1.002	A VV	~~146616~~, 143877	~~100.000~~	~~NG~~	2.30
67	264	1298	19:31	67	1.000	A BV	77412.	40.000	NG	0.92
68	149	1186	17:50	67	0.914	A BV	261227.	50.000	NG	1.15
69	252	1243	18:41	67	0.958	A*BV	226952. 113471	100.000	NG	2.30
70	252	1243	18:41	67	0.958	A*BV	226952. 113471	100.000	NG	2.30
71	252	1289	19:23	67	0.993	A VV	110376.	50.000	NG	1.15
72	276	1522	22:53	67	1.173	A BV	120052.	50.000	NG	1.15
73	278	1528	22:59	67	1.177	A BV	97628.	50.000	NG	1.15
74	276	1590	23:55	67	1.225	A BV	102956.	50.000	NG	1.15

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	360	5:25	1	0.781	A BV	201104.	50.000 NG	1.15
76	99	435	6:32	1	0.944	A BV	275068.	50.000 NG	1.15
77	82	510	7:40	17	0.890	A BV	223088.	50.000 NG	1.15
78	172	673	10:07	30	0.916	A BV	290420.	50.000 NG	1.15
79	141	809	12:10	30	1.101	A*VV	18412.	50.000 NG	1.15
80	244	1019	15:19	59	0.913	A BV	128732.	50.000 NG	1.15
81	212	1003	15:05	59	0.899	A VV	201692.	50.000 NG	1.15
82	216	683	10:16	17	1.192	A BB	117932.	50.000 NG	1.15

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:56	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:40	1.00	10.000	0.05	50.00	50.00	0.581	0.501	1.00
3	6:33	1.00	10.000	0.09	50.00	50.00	2.151	2.151	1.00
4	6:33	1.00	10.000	0.09	50.00	50.00	1.988	1.908	1.00
5	6:39	1.00	10.000	0.10	50.00	50.00	1.767	1.767	1.00
6	6:42	1.00	10.000	0.10	50.00	50.00	1.490	1.490	1.00
7	6:52	1.00	10.000	0.10	50.00	50.00	1.603	1.603	1.00
8	6:57	1.00	10.000	0.10	50.00	50.00	1.780	1.780	1.00
9	7:09	1.00	10.000	0.10	50.00	50.00	0.293	0.293	1.00
10	7:11	1.00	10.000	0.10	50.00	50.00	1.566	1.566	1.00
11	7:18	1.00	10.000	0.11	50.00	50.00	1.512	1.512	1.00
12	7:21	1.00	10.000	0.11	50.00	50.00	1.852	1.852	1.00
13	7:29	1.00	10.000	0.11	50.00	50.00	1.633	1.633	1.00
14	7:31	1.00	10.000	0.11	50.00	50.00	1.227	1.227	1.00
15	7:36	1.00	10.000	0.11	50.00	50.00	0.698	0.698	1.00
16	7:42	1.00	10.000	0.11	50.00	50.00	1.685	1.685	1.00
17	8:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:01	1.00	10.000	0.09	50.00	50.00	0.918	0.918	1.00
19	8:07	1.00	3.000	0.31	50.00	50.00	0.199	0.199	1.00
20	8:12	1.00	6.000	0.16	50.00	50.00	0.340	0.340	1.00
21	8:22	1.00	50.000	0.02	50.00	50.00	0.225	0.225	1.00
22	8:19	1.00	10.000	0.10	50.00	50.00	0.477	0.477	1.00
23	8:27	1.00	10.000	0.10	50.00	50.00	0.294	0.294	1.00
24	8:33	1.00	10.000	0.10	50.00	50.00	0.336	0.336	1.00
25	8:38	1.00	10.000	0.10	50.00	50.00	1.077	1.077	1.00
26	8:44	1.00	10.000	0.10	50.00	50.00	0.285	0.285	1.00
27	8:54	1.00	10.000	0.10	50.00	50.00	0.159	0.159	1.00
28	9:25	1.00	10.000	0.11	50.00	50.00	0.347	0.347	1.00
29	9:35	1.00	10.000	0.11	50.00	50.00	0.656	0.656	1.00
30	11:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	9:55	1.00	10.000	0.09	50.00	50.00	0.262	0.262	1.00
32	10:01	1.00	10.000	0.09	100.00	100.00	0.364	0.364	1.00
33	10:01	1.00	50.000	0.02	100.00	100.00	0.364	0.364	1.00
34	10:15	1.00	10.000	0.09	50.00	50.00	1.312	1.312	1.00
35	10:26	1.00	50.000	0.02	50.00	50.00	0.461	0.461	1.00
36	10:44	1.00	10.000	0.10	50.00	50.00	1.195	1.195	1.00
37	10:50	1.00	10.000	0.10	50.00	50.00	1.790	1.790	1.00
38	11:01	1.00	50.000	0.02	50.00	50.00	0.116	0.116	1.00
39	11:06	1.00	10.000	0.10	50.00	50.00	1.253	1.253	1.00
40	11:09	1.00	50.000	0.02	50.00	50.00	0.107	0.107	1.00
41	11:19	1.00	50.000	0.02	50.00	50.00	0.815	0.815	1.00
42	11:19	1.00	10.000	0.10	50.00	50.00	1.576	1.576	1.00
43	11:22	1.00	10.000	0.10	50.00	50.00	0.370	0.370	1.00
44	10:50	1.00	10.000	0.10	50.00	50.00	0.271	0.271	1.00
45	11:44	1.00	10.000	0.11	50.00	50.00	1.308	1.308	1.00
46	11:48	1.00	10.000	0.11	50.00	50.00	0.471	0.471	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
47	11:48	1.00	10.000	0.11	50.00	50.00	1.199	1.199	1.00
48	11:53	1.00	50.000	0.02	50.00	50.00	0.149	0.149	1.00
49	13:06	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	11:56	1.00	50.000	0.02	50.00	50.00	0.103	0.103	1.00
51	11:58	1.00	10.000	0.09	50.00	50.00	0.502	0.502	1.00
52	12:29	1.00	10.000	0.10	50.00	50.00	0.207	0.207	1.00
53	12:41	1.00	10.000	0.10	50.00	50.00	0.228	0.228	1.00
54	12:56	1.00	50.000	0.02	50.00	50.00	0.101	0.101	1.00
55	13:08	1.00	10.000	0.10	50.00	50.00	1.230	1.230	1.00
56	13:11	1.00	10.000	0.10	50.00	50.00	1.155	1.155	1.00
57	13:59	1.00	10.000	0.11	50.00	50.00	1.482	1.482	1.00
58	14:48	1.00	10.000	0.11	50.00	50.00	0.988	0.988	1.00
59	16:47	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:05	1.00	50.000	0.02	50.00	50.00	0.031	0.031	1.00
61	15:06	1.00	10.000	0.09	50.00	50.00	2.198	2.198	1.00
62	16:03	1.00	10.000	0.10	50.00	50.00	1.109	1.109	1.00
63	16:43	1.00	20.000	0.05	50.00	50.00	0.201	0.201	1.00
64	16:49	1.00	10.000	0.10	~~100.005~~0	~~100.005~~0	~~0.679~~	~~0.679~~1.334	1.00
65	16:51	1.00	10.000	0.10	50.00	50.00	1.641	1.641	1.00
66	16:49	1.00	10.000	0.10	100.005~~0~~	~~100.005~~0	~~0.679~~	~~0.679~~	1.00
67	19:31	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	17:50	1.00	10.000	0.09	50.00	50.00	2.700	2.700	1.00
69	18:41	1.00	10.000	0.10	100.00	100.00	1.173	1.173	1.00
70	18:41	1.00	10.000	0.10	100.00	100.00	1.173	1.173	1.00
71	19:23	1.00	10.000	0.10	50.00	50.00	1.141	1.141	1.00
72	22:53	1.00	10.000	0.12	50.00	50.00	1.241	1.241	1.00
73	22:59	1.00	10.000	0.12	50.00	50.00	1.009	1.009	1.00
74	23:55	1.00	10.000	0.12	50.00	50.00	1.064	1.064	1.00
75	5:25	1.00	0.742	1.05	50.00	50.00	1.418	1.418	1.00
76	6:32	1.00	0.948	1.00	50.00	50.00	1.939	1.939	1.00
77	7:40	1.00	0.875	1.02	50.00	50.00	0.455	0.455	1.00
78	10:07	1.00	0.906	1.01	50.00	50.00	1.322	1.322	1.00
79	12:10	1.00	1.118	0.98	50.00	50.00	0.084	0.084	1.00
80	15:19	1.00	0.907	1.01	50.00	50.00	1.193	1.193	1.00
81	15:05	1.00	10.000	0.09	50.00	50.00	1.870	1.870	1.00
82	10:16	1.00	10.000	0.12	50.00	50.00	0.240	0.240	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 10:48
Time Tune Expires 22:48

Shift(s) (A) ✓ (B) ____ (C) ____
Date 11-16-84
Analysis Type SEMI

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition,
1	✓	DH85116A16		11/16/84	:			1.0ul	644		2780	
2				I Returned and Recalib				note			2780	
3		DH85116A16		11/16/84	16:48			1.0ul	644		2780	#70578
4	✓	HG85116A16		1/1	11:22			1.0ul	644		2780	#(16097) 50 NG. Std
5		AJ85116A16		1/1	12:10			1.0ul	644		2780	#(16097) " "
6		SRRRCHEKA16		1/1	12:58			1.0ul	644		2780	
7		GH067026A16	-	1/1	14:25	HP-777	5125-4	1.0ul	644		2780	# 67026 OK
8		GH067031A16		1/1	15:10	HP-778	5125-4	1.0ul	644		2780	67031 OK
9		GH067033A16	-	1/1	15:43	HP-780	5125-4	1.0ul	644		2780	67033 OK
10		GH067034A16	-	1/1	16:21	HP-781	5125-4	1.0ul	644		2780	67034 OK
11		GH067035A16	-	1/1	16:55	HP-784	5125-4	1.0ul	644		2780	67035 OK
12		GH066783A16		1/1	17:5	BLANK	URS	1.0ul	644		2780	66783 OK
13				/ /	:							
14				/ /	:							
15				/ /	:							
16				/ /	:							
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18				/ /	:							
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23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

COMPUCHEM LABS

RIC

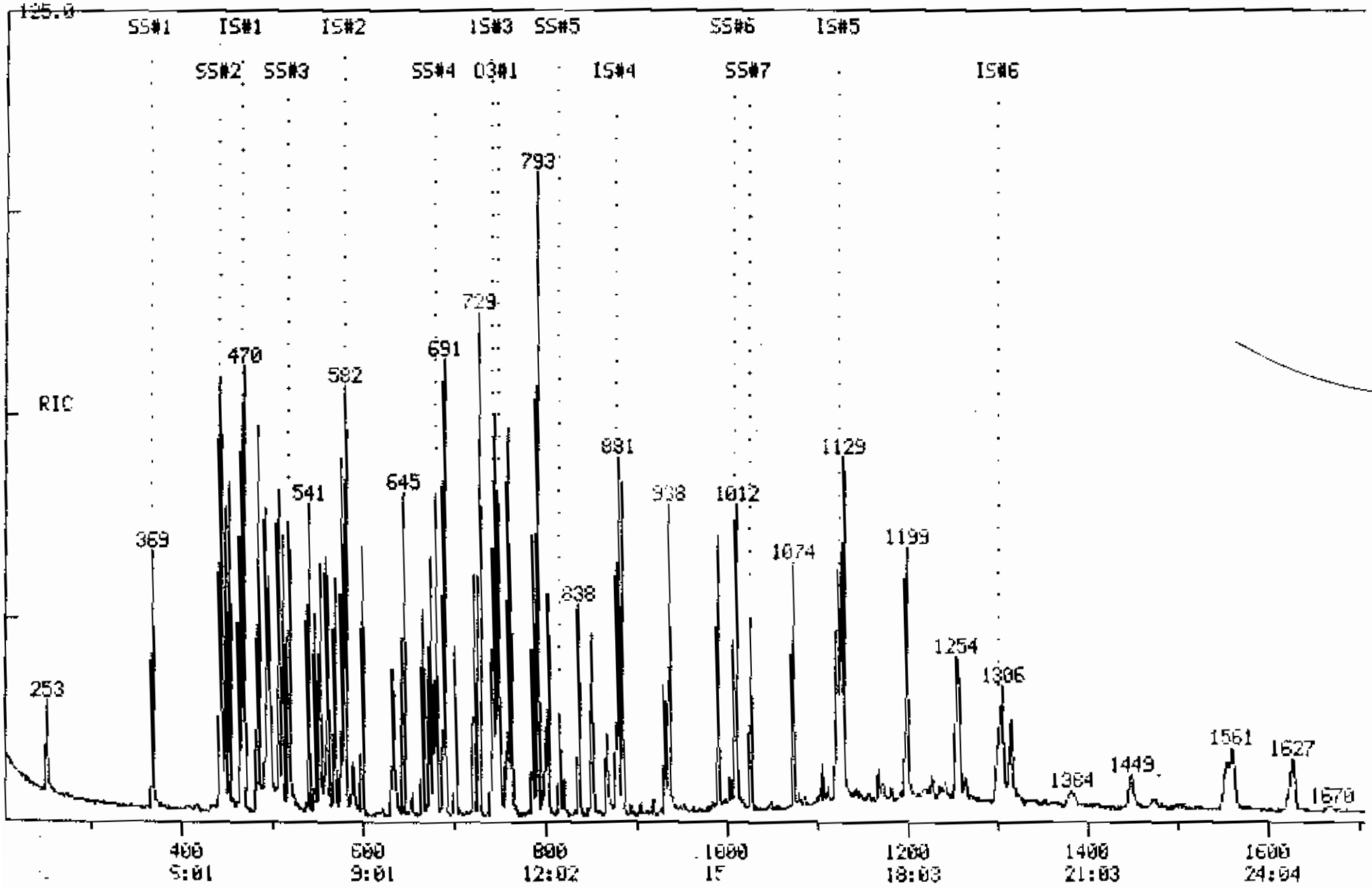
11/17/85 7:30:00

SAMPLE: 1.0UL 50NG. STD.LOT#16097 (#2365) ON#16

CONDS.:

COMPUCHEM DATA: HH851117A16 SCANS 207 TO 1707

OUT OF 207 TO 1750



COMPUCHEM LABS

RIC
11/17/85 7:30:00
SAMPLE: 1.0UL 50NG. STD.LOT#16097 (#2365) ON#16
CONDS.:

COMPUCHEM DATA: HH851117A16 SCANS 1707 TO 1750
OUT OF 207 TO 1750

737200.

SCAN
TIME

QUANTITATION REPORT FILE: HH851117A16

DATA: HH851117A16.TI
11/17/85 7:30:00
SAMPLE: 1.0UL SONG. STD.LOT#16097 (#2365) ON#16
COMMENTS:
SUBMITTED BY: 16 ANALYST: 644

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	609 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (O4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (O4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (O4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (O5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (O6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (O6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (O6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (O6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (O6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (O6#8) <191-24-2>
	#619 2-FLUOROPHENOL (SS#1)
76	#612 O5-PHENOL (SS#2)
77	#447 O5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	469	7:03	1	1.000	A BB	71448.	40.000 NG	0.94
2	42	253	3:48	1	0.539	A BB	58193.	50.000 NG	1.18
3	94	444	6:41	1	0.947	A BV	174132.	50.000 NG	1.18
4	93	445	6:41	1	0.949	A BV	101960.	50.000 NG	1.18
5	93	450	6:46	1	0.959	A VV	158624.	50.000 NG	1.18
6	128	454	6:50	1	0.968	A BV	128136.	50.000 NG	1.18
7	146	466	7:00	1	0.994	A BV	138104.	50.000 NG	1.18
8	146	470	7:04	1	1.002	A VV	143836.	50.000 NG	1.18
9	108	486	7:18	1	1.036	A*BV	23129.	50.000 NG	1.18
10	146	486	7:18	1	1.036	A BV	131888.	50.000 NG	1.18
11	108	494	7:26	1	1.053	A VV	134994.	50.000 NG	1.18
12	45	497	7:28	1	1.060	A VV	158664.	50.000 NG	1.18
13	108	507	7:37	1	1.081	A VV	130046.	50.000 NG	1.18
14	70	508	7:38	1	1.083	A BV	100736.	50.000 NG	1.18
15	117	513	7:43	1	1.094	A BB	62088.	50.000 NG	1.18
	77	520	7:49	1	1.109	A VB	132757.	50.000 NG	1.18
	136	581	8:44	17	1.000	A BV	228768.	40.000 NG	0.94
18	82	541	8:08	17	0.931	A BV	244268.	50.000 NG	1.18

NO.	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	548	8:14	17	0.943	A BV	58180.	50.000	NG	1.18
20	122	553	8:19	17	0.952	A VV	91764.	50.000	NG	1.18
21	122	564	8:29	17	0.971	A VV	61832.	50.000	NG	1.18
22	93	561	8:26	17	0.966	A VV	132752.	50.000	NG	1.18
23	162	570	8:34	17	0.981	A BB	78260.	50.000	NG	1.18
24	180	577	8:41	17	0.993	A BB	94620.	50.000	NG	1.18
25	128	582	8:45	17	1.002	A BV	317436.	50.000	NG	1.18
26	127	590	8:52	17	1.015	A VV	41816.	50.000	NG	1.18
27	225	600	9:01	17	1.033	A BB	47188.	50.000	NG	1.18
28	107	634	9:32	17	1.091	A BV	90556.	50.000	NG	1.18
29	142	645	9:42	17	1.110	A VV	176640.	50.000	NG	1.18
30	164	743	11:10	30	1.000	A BB	97928.	40.000	NG	0.94
31	237	667	10:02	30	0.898	A BB	36248.	50.000	NG	1.18
32	196	674	10:08	30	0.907	A*BV	88652/44316	100.000	NG	2.36
33	196	674	10:08	30	0.907	A*BV	88652/44324	100.000	NG	2.36
34	162	690	10:23	30	0.929	A BB	160080.	50.000	NG	1.18
35	65	702	10:33	30	0.945	A BV	57030.	50.000	NG	1.18
36	163	723	10:52	30	0.973	A BB	162676.	50.000	NG	1.18
37	152	729	10:58	30	0.981	A BB	235220.	50.000	NG	1.18
38	138	741	11:09	30	0.997	A*BV	11852.	50.000	NG	1.18
39	153	746	11:13	30	1.004	A BB	153112.	50.000	NG	1.18
40	184	750	11:17	30	1.009	A BB	16040.	50.000	NG	1.18
41	139	~~757764~~	11:27	30	1.024	A VV	~~101460.~~ 9940 (3120)	50.000	NG	1.18
42	168	761	11:27	30	1.024	A BB	204196.	50.000	NG	1.18
43	89	764	11:29	30	1.028	A*BB	48668.	50.000	NG	1.18
44	165	728	10:57	30	0.980	A VB	34884.	50.000	NG	1.18
45	149	788	11:51	30	1.061	A VV	165792.	50.000	NG	1.18
46	204	793	11:55	30	1.067	A BB	58184.	50.000	NG	1.18
47	166	793	11:55	30	1.067	A BV	144916.	50.000	NG	1.18
48	138	798	12:00	30	1.074	A VV	18752.	50.000	NG	1.18
49	188	879	13:13	49	1.000	A VV	118184.	40.000	NG	0.94
50	198	801	12:03	49	0.911	A BV	15876.	50.000	NG	1.18
51	169	804	12:05	49	0.915	A*VV	80812.	50.000	NG	1.18
52	248	837	12:35	49	0.952	A VB	28504.	50.000	NG	1.18
53	284	851	12:48	49	0.968	A BB	32840.	50.000	NG	1.18
54	266	868	13:03	49	0.987	A BV	16852.	50.000	NG	1.18
55	178	881	13:15	49	1.002	A VV	185784.	50.000	NG	1.18
56	178	885	13:18	49	1.007	A VV	180816.	50.000	NG	1.18
57	149	938	14:06	49	1.067	A VV	286948.	50.000	NG	1.18
58	202	991	14:54	49	1.127	A VV	153652.	50.000	NG	1.18
59	240	1124	16:54	59	1.000	A BV	61440.	40.000	NG	0.94
60	184	1010	15:11	59	0.899	A BB	2104.	50.000	NG	1.18
61	202	1012	15:13	59	0.900	A VV	160328.	50.000	NG	1.18
62	149	1074	16:09	59	0.956	A BV	98580.	50.000	NG	1.18
63	252	1120	16:50	59	0.996	A BV	14740.	50.000	NG	1.18
64	228	1122	16:52	59	0.998	A BV	103144.	50.000	NG	1.18
65	149	1129	16:59	59	1.004	A BV	241083.	50.000	NG	1.18
66	228	1126	16:56	59	1.002	A VV	98572.	50.000	NG	1.18
67	264	1316	19:47	67	1.000	A BB	58956.	40.000	NG	0.94
68	149	1199	18:02	67	0.911	A BB	184512.	50.000	NG	1.18
69	252	1257	18:54	67	0.955	A*BV	168660/44330	100.000	NG	2.36
70	252	1257	18:54	67	0.955	A*BV	168660/44330	100.000	NG	2.36
71	252	1306	19:38	67	0.992	A BV	84744.	50.000	NG	1.18
72	276	1554	23:22	67	1.181	A BB	89192.	50.000	NG	1.18
73	278	1561	23:28	67	1.186	A BB	77432.	50.000	NG	1.18
74	276	1627	24:28	67	1.236	A BB	78169.	50.000	NG	1.18

NO.	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	369	5:33	1	0.787	A BV	124340.	50.000 NG	1.18
76	99	444	6:41	1	0.947	A BV	160628.	50.000 NG	1.18
77	82	518	7:47	17	0.892	A BV	131680.	50.000 NG	1.18
78	172	681	10:14	30	0.917	A BV	160640.	50.000 NG	1.18
79	141	817	12:17	30	1.100	A BV	10004.	50.000 NG	1.18
80	244	1026	15:26	59	0.913	A BV	86044.	50.000 NG	1.18
81	212	1010	15:11	59	0.899	A BV	130448.	50.000 NG	1.18
82	216	691	10:23	17	1.189	A BB	66156.	50.000 NG	1.18

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48	1.00	10.000	0.05	50.00	50.00	0.652	0.652	1.00
3	6:41	1.00	10.000	0.09	50.00	50.00	1.950	1.950	1.00
4	6:41	1.00	10.000	0.09	50.00	50.00	1.142	1.142	1.00
5	6:46	1.00	10.000	0.10	50.00	50.00	1.776	1.776	1.00
6	6:50	1.00	10.000	0.10	50.00	50.00	1.435	1.435	1.00
7	7:00	1.00	10.000	0.10	50.00	50.00	1.546	1.546	1.00
8	7:04	1.00	10.000	0.10	50.00	50.00	1.611	1.611	1.00
9	7:18	1.00	10.000	0.10	50.00	50.00	0.259	0.259	1.00
10	7:18	1.00	10.000	0.10	50.00	50.00	1.477	1.477	1.00
11	7:26	1.00	10.000	0.11	50.00	50.00	1.512	1.512	1.00
12	7:28	1.00	10.000	0.11	50.00	50.00	1.777	1.777	1.00
13	7:37	1.00	10.000	0.11	50.00	50.00	1.456	1.456	1.00
14	7:38	1.00	10.000	0.11	50.00	50.00	1.128	1.128	1.00
15	7:43	1.00	10.000	0.11	50.00	50.00	0.695	0.695	1.00
16	7:49	1.00	10.000	0.11	50.00	50.00	1.486	1.486	1.00
17	8:44	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:08	1.00	10.000	0.09	50.00	50.00	0.854	0.854	1.00
19	8:14	1.00	3.000	0.31	50.00	50.00	0.203	0.203	1.00
20	8:19	1.00	6.000	0.16	50.00	50.00	0.321	0.321	1.00
21	8:29	1.00	50.000	0.02	50.00	50.00	0.216	0.216	1.00
22	8:26	1.00	10.000	0.10	50.00	50.00	0.464	0.464	1.00
23	8:34	1.00	10.000	0.10	50.00	50.00	0.274	0.274	1.00
24	8:41	1.00	10.000	0.10	50.00	50.00	0.331	0.301	1.00
25	8:45	1.00	10.000	0.10	50.00	50.00	1.110	1.110	1.00
26	8:52	1.00	10.000	0.10	50.00	50.00	0.146	0.146	1.00
27	9:01	1.00	10.000	0.10	50.00	50.00	0.165	0.165	1.00
28	9:32	1.00	10.000	0.11	50.00	50.00	0.317	0.317	1.00
29	9:42	1.00	10.000	0.11	50.00	50.00	0.618	0.618	1.00
30	11:10	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:02	1.00	10.000	0.09	50.00	50.00	0.296	0.296	1.00
32	10:08	1.00	10.000	0.09	100.00	100.00	0.362	0.362	1.00
33	10:08	1.00	50.000	0.02	100.00	100.00	0.362	0.362	1.00
34	10:23	1.00	10.000	0.09	50.00	50.00	1.308	1.308	1.00
35	10:33	1.00	50.000	0.02	50.00	50.00	0.466	0.466	1.00
36	10:52	1.00	10.000	0.10	50.00	50.00	1.329	1.329	1.00
37	10:58	1.00	10.000	0.10	50.00	50.00	1.922	1.922	1.00
38	11:09	1.00	50.000	0.02	50.00	50.00	0.097	0.097	1.00
39	11:13	1.00	10.000	0.10	50.00	50.00	1.251	1.251	1.00
40	11:17	1.00	50.000	0.02	50.00	50.00	0.131	0.131	1.00
41	11:27	1.00	50.000	0.02	50.00	50.00	0.828	0.828	1.00
42	11:27	1.00	10.000	0.10	50.00	50.00	1.668	1.668	1.00
43	11:29	1.00	10.000	0.10	50.00	50.00	0.398	0.398	1.00
44	10:57	1.00	10.000	0.10	50.00	50.00	0.285	0.285	1.00
45	11:51	1.00	10.000	0.11	50.00	50.00	1.354	1.354	1.00
46	11:55	1.00	10.000	0.11	50.00	50.00	0.475	0.475	1.00

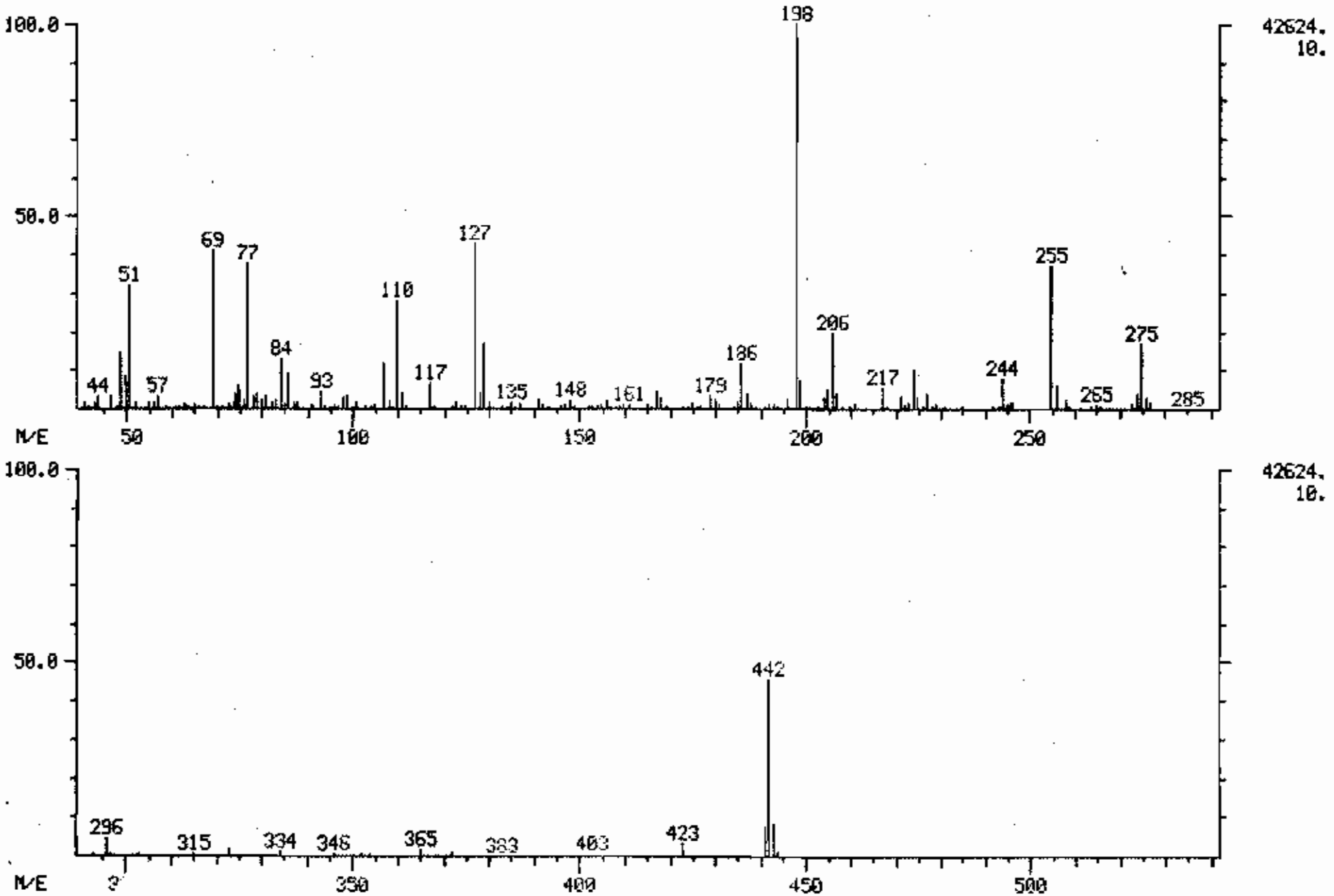
NO.	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
47	11:55	1.00	10.000	0.11	50.00	50.00	1.184	1.184	1.00
48	12:00	1.00	50.000	0.02	50.00	50.00	0.153	0.153	1.00
49	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:03	1.00	50.000	0.02	50.00	50.00	0.107	0.107	1.00
51	12:05	1.00	10.000	0.09	50.00	50.00	0.547	0.547	1.00
52	12:35	1.00	10.000	0.10	50.00	50.00	0.193	0.193	1.00
53	12:48	1.00	10.000	0.10	50.00	50.00	0.222	0.222	1.00
54	13:03	1.00	50.000	0.02	50.00	50.00	0.114	0.114	1.00
55	13:15	1.00	10.000	0.10	50.00	50.00	1.258	1.258	1.00
56	13:18	1.00	10.000	0.10	50.00	50.00	1.224	1.224	1.00
57	14:06	1.00	10.000	0.11	50.00	50.00	1.942	1.942	1.00
58	14:54	1.00	10.000	0.11	50.00	50.00	1.040	1.040	1.00
59	16:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:11	1.00	50.000	0.02	50.00	50.00	0.027	0.027	1.00
61	15:13	1.00	10.000	0.09	50.00	50.00	2.088	2.088	1.00
62	16:09	1.00	10.000	0.10	50.00	50.00	1.284	1.284	1.00
63	16:50	1.00	20.000	0.05	50.00	50.00	0.192	0.192	1.00
64	16:52	1.00	10.000	0.10	50.00	50.00	1.343	1.343	1.00
65	16:59	1.00	10.000	0.10	50.00	50.00	3.139	3.139	1.00
66	16:56	1.00	10.000	0.10	50.00	50.00	1.283	1.283	1.00
67	19:47	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:02	1.00	10.000	0.09	50.00	50.00	2.504	2.504	1.00
69	18:54	1.00	10.000	0.10	100.00	100.00	1.144	1.144	1.00
70	18:54	1.00	10.000	0.10	100.00	100.00	1.144	1.144	1.00
71	19:38	1.00	10.000	0.10	50.00	50.00	1.150	1.150	1.00
72	23:22	1.00	10.000	0.12	50.00	50.00	1.210	1.210	1.00
73	23:28	1.00	10.000	0.12	50.00	50.00	1.051	1.051	1.00
74	24:28	1.00	10.000	0.12	50.00	50.00	1.061	1.061	1.00
75	5:33	1.00	0.742	1.06	50.00	50.00	1.392	1.392	1.00
76	6:41	1.00	0.948	1.00	50.00	50.00	1.799	1.799	1.00
77	7:47	1.00	0.875	1.02	50.00	50.00	0.460	0.460	1.00
78	10:14	1.00	0.906	1.01	50.00	50.00	1.312	1.312	1.00
79	12:17	1.00	1.118	0.98	50.00	50.00	0.082	0.082	1.00
80	15:26	1.00	0.907	1.01	50.00	50.00	1.120	1.120	1.00
81	15:11	1.00	10.000	0.09	50.00	50.00	1.699	1.699	1.00
82	10:23	1.00	10.000	0.12	50.00	50.00	0.231	0.231	1.00

COMPUCHEM LABS

MASS SPECTRUM
11/16/05 10:48:00 + 4:32
SAMPLE: 1.0UL DFTPP LOT#16041 (#7050) ON#16
#301 TO #302 SUMMED

DATA: DH051116A16 #301

BASE M/E: 198
RIC: 330240.



COMPUCHEM LABS

MASS LIST DATA: DH851116A16 # 301 BASE M/E: 198
:1/16/85 10:48:00 + 4:32 RIC: 330240.
SAMPLE: 1.0UL DFTPP LOT#16041 (#7050) ON#16
1 TO #302 SUMMED

41 0.00 MINIMA MIN INTEN: 73. MAX INTEN: 42624.
445 # 0 MAXIMA

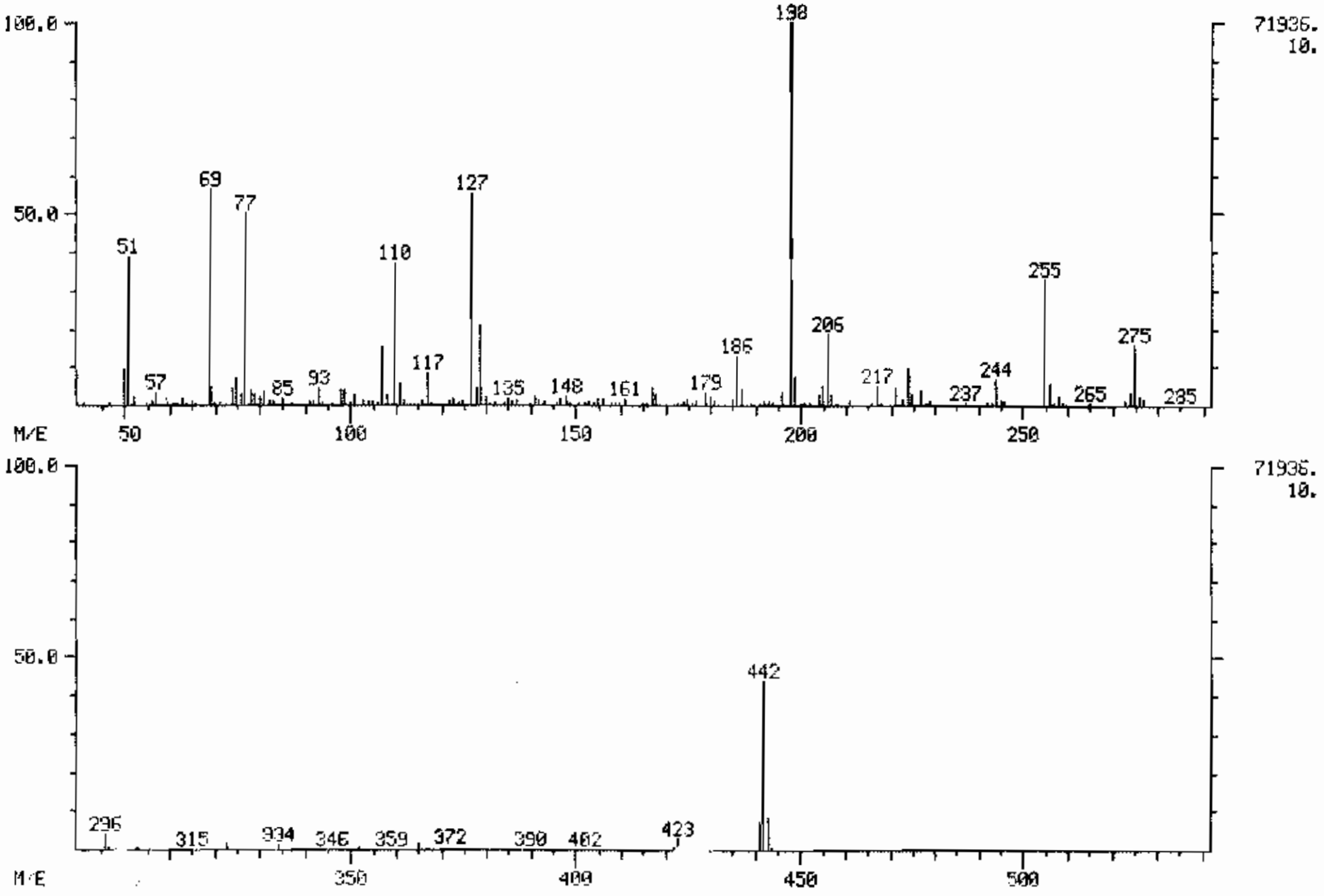
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	1.59	98	3.03	165	1.03	231	0.38
42	0.71	99	3.37	166	0.69	235	0.30
43	1.49	100	0.35	167	4.69	236	0.22
44	3.49	101	1.93	168	2.64	237	0.28
45	0.28	103	0.72	169	0.68	242	0.53
47	3.32	104	0.83	171	0.25	243	0.60
48	0.55	105	1.19	172	0.21	244	7.72
49	14.70	107	12.05	173	0.53	245	1.37
50	8.42	108	2.42	174	0.60	246	1.60
51	32.21	109	0.80	175	1.83	249	0.28
52	1.91	110	28.42	176	0.57	253	0.19
53	0.21	111	4.20	177	0.75	255	37.16
55	1.56	112	0.58	179	3.41	256	6.04
56	1.49	117	6.96	180	2.47	258	2.07
57	3.25	118	0.63	181	0.98	259	0.31
59	0.63	122	0.67	184	0.33	264	0.34
60	0.23	123	1.60	185	1.78	265	0.86
61	0.42	124	0.64	186	11.84	266	0.59
62	0.57	125	0.73	187	3.94	273	1.02
63	1.19	127	43.09	188	1.53	274	3.83
[illegible]	0.35	128	3.73	189	0.73	275	17.12
[illegible]	0.99	129	17.15	191	0.54	276	2.71
66	0.38	130	1.67	192	0.95	277	1.91
67	0.80	131	0.31	193	1.15	278	0.23
68	0.18	132	0.27	194	0.30	285	0.23
69	41.14	133	0.53	196	2.56	293	0.36
70	0.54	134	0.55	198	100.00	296	4.51
71	0.38	135	1.78	199	7.08	297	0.46
73	1.07	136	0.67	200	0.37	303	0.38
74	4.02	137	1.04	201	0.49	315	0.41
75	6.12	138	0.25	202	0.23	316	0.20
76	2.53	141	2.12	203	0.66	323	1.68
77	37.73	142	1.12	204	3.07	324	0.18
78	3.48	143	0.36	205	4.81	334	1.19
79	4.12	146	0.37	206	20.01	346	0.30
80	2.33	147	1.26	207	3.74	352	0.38
81	3.55	148	2.46	208	0.83	353	0.23
82	1.49	149	0.63	210	0.34	354	0.49
83	2.02	150	0.18	211	1.22	365	1.79
84	13.21	152	0.66	217	5.73	372	0.92
85	0.90	153	0.67	218	0.66	403	0.36
86	9.03	154	0.56	221	3.63	421	0.24
87	1.44	155	1.32	222	1.11	423	3.56
88	1.68	156	2.07	223	1.44	424	0.57
91	0.98	157	0.35	224	10.27	441	8.04
93	4.49	158	0.60	225	2.76	442	45.65
[illegible]	0.77	159	0.42	226	0.37	443	8.29
[illegible]	0.82	160	0.91	227	3.93	444	1.03
96	1.31	161	1.12	228	0.49		
97	0.69	162	0.22	229	1.14		

COMPUCHEM LABS

MASS SPECTRUM
11/17/85 5:39:00 + 4:22
SAMPLE: 1.0UL OFTPP LOT#16941 (#7050) ON#16
#290 TO #291 SUMMED - #284 X1.00

DATA: DH851117A16 #290

BASE M/E: 198
RIC: 564224.



COMPUCHEM LABS

MASS LIST DATA: DH851117A16 # 290 BASE M/E: 198
11/17/85 5:39:00 + 4:22 RIC: 564224.
SAMPLE: 1.OUL DFTPP LOT#16941 (#7050) DN#16
#290 TO #291 SUMMED - #284 X1.00

41 0.00 MINIMA MIN INTEN: 109. MAX INTEN: 71936.
444 # 0 MAXIMA

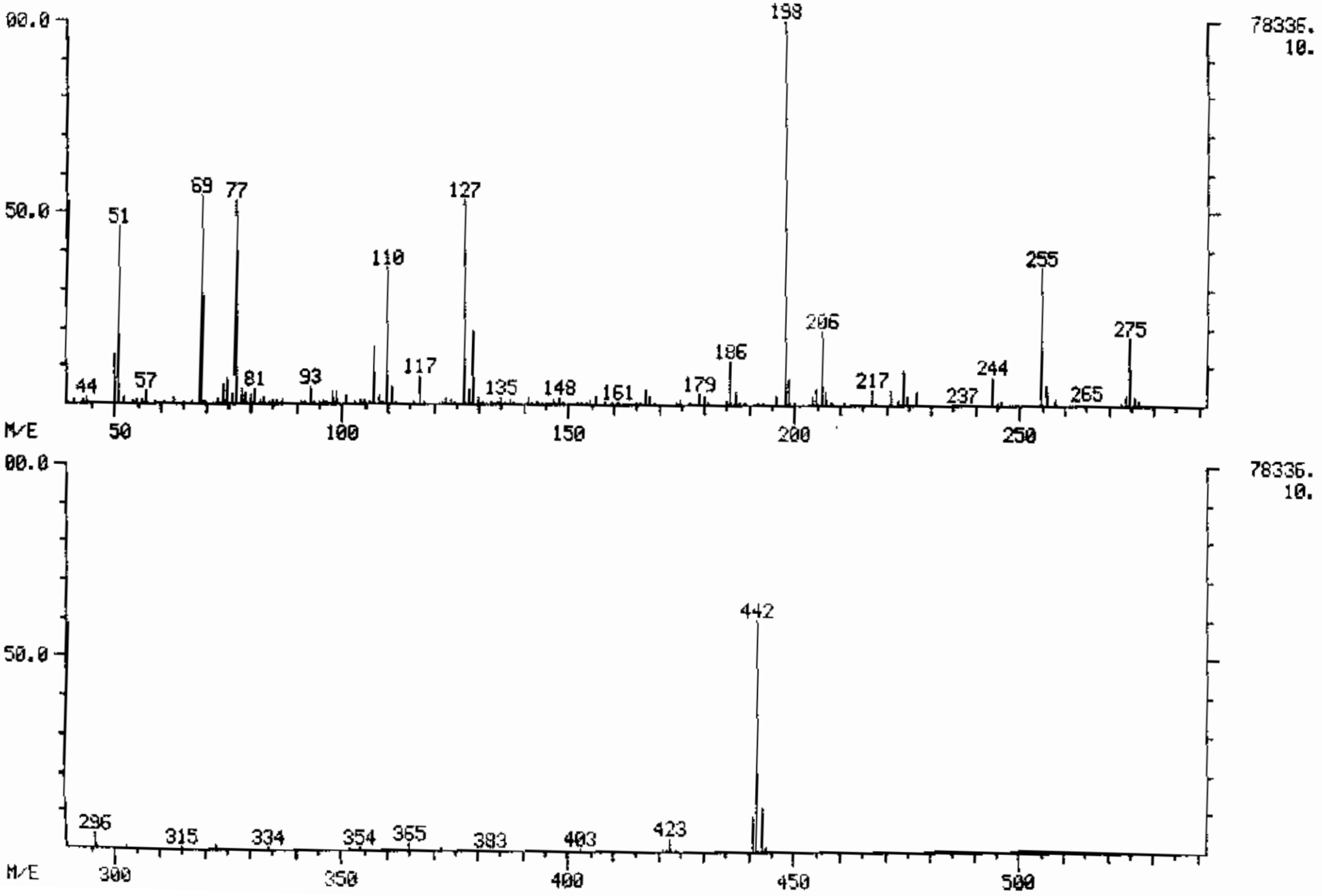
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	0.64	113	0.19	168	2.87	235	0.24
42	0.27	115	0.16	169	0.27	237	0.42
43	0.21	116	1.10	171	0.23	240	0.17
47	0.33	117	8.21	172	0.28	242	0.67
50	9.75	118	0.82	173	0.31	243	0.46
51	39.15	119	0.28	174	1.16	244	6.92
52	2.29	120	0.16	175	1.71	245	1.05
55	0.64	121	0.27	176	0.57	246	1.40
56	1.37	122	0.97	177	0.87	247	0.19
57	3.56	123	1.60	178	0.28	249	0.22
61	0.63	124	0.80	179	3.13	255	32.92
62	0.67	125	0.86	180	2.49	256	5.55
63	1.86	127	55.16	181	1.21	257	0.62
64	0.38	128	4.43	182	0.16	258	2.17
65	1.07	129	21.04	185	1.47	259	0.38
66	0.38	130	2.04	186	12.99	265	0.67
67	0.19	131	0.57	187	4.25	273	0.85
69	56.32	132	0.31	189	0.53	274	3.56
70	0.47	134	0.56	191	0.47	275	16.06
71	0.35	135	1.81	192	1.28	276	2.30
74	4.76	136	0.90	193	1.04	277	1.47
75	7.28	137	1.31	194	0.37	285	0.27
76	3.03	138	0.26	196	3.11	293	0.27
77	50.44	140	0.47	198	100.00	296	3.99
78	3.89	141	2.43	199	7.55	297	0.47
79	2.95	142	1.10	200	0.54	303	0.43
80	2.22	143	0.86	201	0.36	315	0.28
81	3.67	144	0.21	202	0.32	316	0.23
82	1.05	145	0.22	203	0.17	323	1.80
83	1.27	146	0.52	204	2.97	324	0.24
85	1.85	147	1.52	205	5.03	327	0.28
87	0.42	148	2.46	206	18.88	334	0.95
91	0.90	149	0.56	207	2.68	352	0.29
92	1.03	150	0.20	208	0.52	353	0.24
93	4.53	151	0.43	210	0.26	354	0.49
94	0.38	152	0.48	211	1.10	365	1.85
96	0.68	153	0.89	215	0.18	366	0.19
98	4.07	154	0.63	216	0.47	372	0.82
99	4.04	155	1.76	217	5.12	402	0.24
100	0.37	156	1.97	218	0.53	403	0.16
101	2.60	157	0.28	221	4.56	421	0.27
103	0.85	158	0.63	222	0.22	422	0.42
104	1.37	159	0.68	223	1.59	423	2.70
105	1.33	160	0.55	224	9.83	424	0.56
106	0.72	161	1.52	225	2.72	441	7.08
107	15.04	162	0.21	227	4.14	442	44.35
108	2.85	164	0.28	228	0.65	443	8.37
10	37.23	165	0.69	229	1.02	444	0.38
111	5.65	166	0.68	231	0.41		
112	0.91	167	4.57	234	0.18		

COMPUCHEM LABS

MASS SPECTRUM
12/04/85 7:04:00 + 4:33
SAMPLE: 1UL DFTPP 16156 #7050
#302 TO #303 SUMMED

DATA: DJB51204C15 #302

BASE M/E: 198
RIC: 609280.



MASS LIST DATA: DJB51204C15 # 302 BASE M/E: 198
12/04/85 7:04:00 + 4:33 RIC: 609280.
SAMPLE: 1UL OFTPP 16156 #7050
#302 TO #303 SUMMED

41 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 78336.
444 # 0 MAXIMA

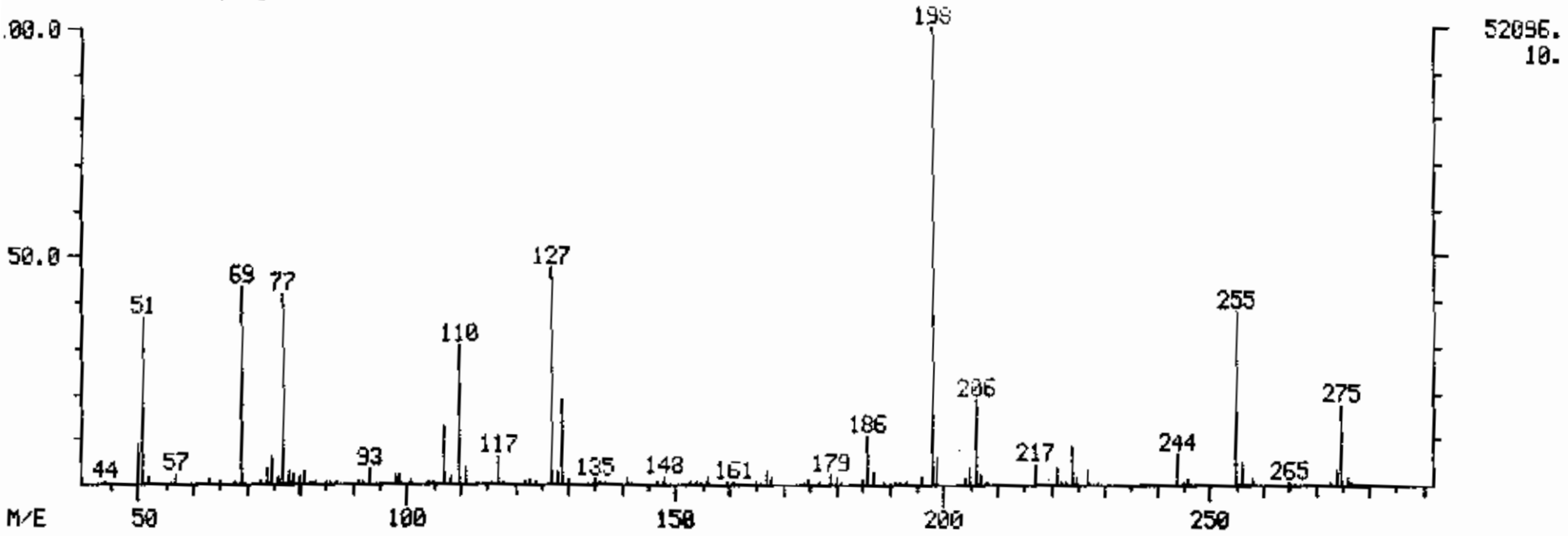
SS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	1.38	103	0.46	167	3.76	243	0.20
43	0.96	104	1.14	168	2.05	244	7.35
44	1.71	105	1.15	169	0.34	245	0.44
49	0.10	106	0.31	170	0.11	246	1.17
50	12.83	107	15.16	172	0.17	247	0.10
51	46.16	108	2.28	173	0.23	249	0.10
52	1.97	109	0.48	174	0.71	255	35.83
53	0.11	110	35.62	175	1.37	256	5.25
54	0.31	111	4.63	176	0.15	257	0.23
55	0.99	112	0.37	177	0.69	258	1.84
56	1.21	116	0.73	178	0.15	259	0.10
57	3.26	117	7.56	179	2.72	265	0.64
59	0.38	118	0.44	180	2.11	273	0.77
60	0.12	119	0.09	181	0.74	274	3.07
61	0.33	122	0.55	184	0.11	275	17.32
62	0.26	123	1.57	185	1.17	276	2.18
63	1.78	124	0.95	186	11.46	277	1.30
64	0.15	125	0.73	187	3.25	281	0.10
65	0.78	127	53.10	188	0.52	293	0.25
67	0.50	128	4.23	189	0.30	296	4.04
69	54.33	129	19.30	191	0.26	297	0.27
70	0.38	130	1.56	192	0.72	303	0.31
71	0.20	131	0.45	193	0.69	315	0.37
73	1.23	133	0.40	194	0.09	316	0.16
74	5.26	134	0.37	196	2.23	323	1.40
75	7.02	135	1.76	198	100.00	324	0.09
76	2.61	136	0.54	199	6.74	327	0.23
77	52.86	137	0.94	200	0.30	334	0.76
78	3.72	138	0.29	201	0.15	335	0.14
79	2.61	141	1.80	203	0.28	341	0.12
80	2.19	142	0.59	204	2.48	352	0.32
81	3.86	143	0.43	205	4.37	353	0.21
82	1.32	146	0.16	206	19.14	354	0.35
83	1.45	147	1.40	207	3.18	355	0.11
84	0.75	148	1.78	208	0.46	365	1.75
85	0.92	149	0.40	210	0.17	366	0.23
86	0.89	151	0.26	211	0.51	372	0.71
87	1.12	152	0.29	217	4.15	373	0.15
91	0.59	153	0.70	218	0.43	383	0.18
92	0.61	154	0.50	221	4.14	402	0.24
93	4.58	155	1.10	222	0.13	403	0.34
94	0.34	156	2.05	223	0.88	421	0.33
95	0.59	157	0.25	224	9.17	422	0.40
96	1.04	158	0.35	225	2.19	423	3.63
97	0.79	159	0.15	227	3.14	424	0.46
98	3.51	160	0.56	228	0.47	441	9.04
99	3.26	161	0.85	229	0.75	442	60.13
100	0.10	162	0.18	236	0.13	443	11.15
101	2.24	165	0.66	237	0.28	444	0.88
02	0.11	166	0.52	242	0.23		

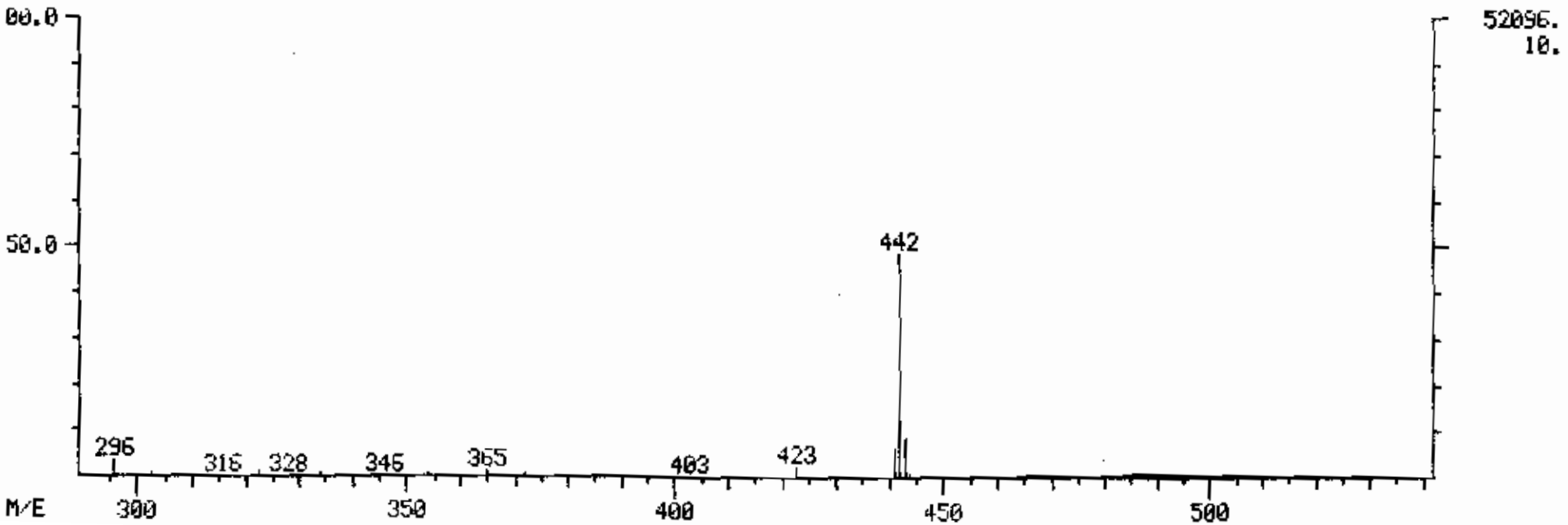
COMPUCHEM LABS

MASS SPECTRUM
12/04/85 21:46:00 + 4:34
SAMPLE: 1 UL DFTPP #16156(7050)
#303 TO #304 SUMMED - #301 X1.00

DATA: DI851204B15 #303

BASE M/E: 198
RIC: 343040.

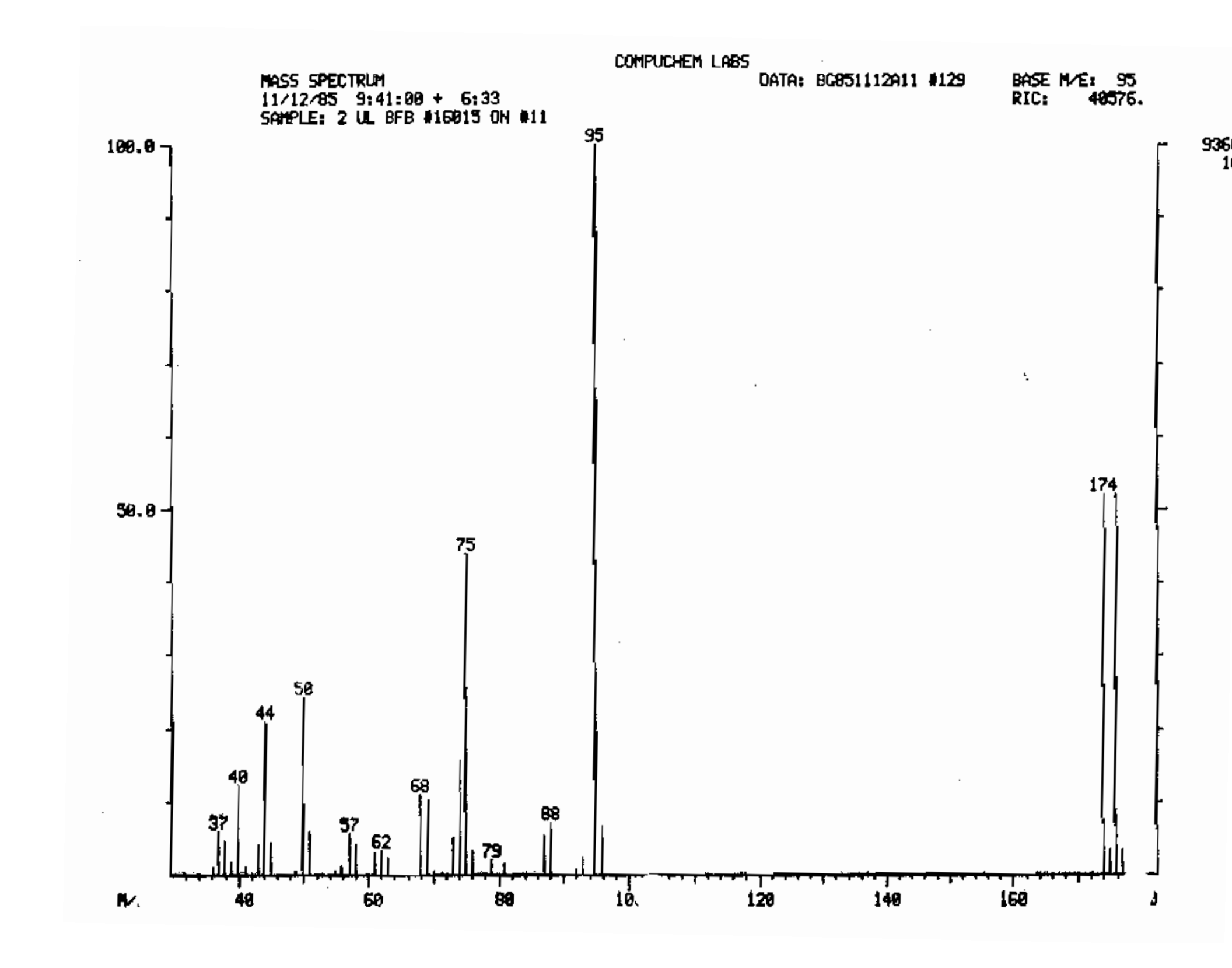




MASS LIST DATA: DI851204B15 # 303 BASE M/E: 198.
12/04/85 21:46:00 + 4:34 RIC: 343040.
SAMPLE: 1 UL DFTPP #16156(7050)
#303 TO #304 SUMMED - #301 X1.00

41 0.00 MINIMA MIN INTEN: 29. MAX INTEN: 52096.
444 # 0 MAXIMA

MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	0.12	112	0.15	180	1.44	255	37.84
42	0.08	116	0.38	181	0.73	256	4.98
44	0.56	117	6.23	185	0.91	257	0.23
45	0.08	118	0.45	186	10.57	258	1.46
49	0.13	122	0.35	187	2.95	259	0.11
50	8.98	123	0.85	188	0.15	265	0.51
51	36.67	124	0.38	189	0.28	266	0.18
52	1.50	125	0.21	190	0.07	267	0.06
54	0.08	127	47.48	191	0.40	273	0.65
55	0.18	128	3.05	192	0.52	274	3.14
56	0.76	129	18.58	193	0.79	275	17.38
57	2.01	130	1.21	194	0.10	276	1.90
61	0.26	131	0.10	196	1.63	277	0.64
62	0.24	132	0.09	197	0.08	278	0.10
63	0.85	134	0.22	198	100.00	281	0.22
65	0.55	135	1.17	199	6.42	283	0.08
68	0.32	136	0.48	200	0.09	285	0.08
69	43.30	137	0.71	201	0.18	293	0.19
73	0.51	141	1.74	202	0.08	296	3.53
74	3.48	142	0.36	203	0.18	297	0.16
75	5.95	143	0.13	204	1.90	303	0.30
76	1.76	144	0.06	205	3.95	314	0.06
77	41.83	147	0.80	206	18.80	315	0.08
78	2.73	148	1.49	207	2.06	316	0.14
79	2.20	149	0.23	208	0.57	323	1.24
80	1.58	151	0.18	209	0.12	324	0.15
81	2.71	152	0.08	210	0.08	327	0.14
82	0.68	153	0.43	211	0.53	328	0.15
83	0.73	154	0.30	216	0.19	334	0.70
84	0.13	155	0.78	217	4.29	346	0.12
85	0.55	156	1.57	218	0.21	352	0.25
86	0.41	157	0.25	221	3.81	353	0.13
87	0.40	158	0.17	222	0.60	354	0.34
91	0.45	159	0.19	223	0.61	355	0.11
92	0.68	160	0.30	224	8.65	365	1.41
93	3.29	161	0.81	225	1.90	366	0.08
94	0.11	165	0.44	227	3.33	372	0.56
96	0.09	166	0.35	228	0.16	401	0.06
98	2.37	167	3.56	229	0.56	402	0.15
99	2.37	168	1.84	231	0.08	403	0.24
100	0.21	169	0.14	234	0.07	421	0.22
101	1.36	171	0.08	237	0.08	422	0.08
103	0.18	172	0.09	239	0.08	423	2.34
104	0.44	173	0.08	242	0.16	424	0.42
105	0.61	174	0.45	243	0.25	441	6.40
107	13.10	175	1.19	244	6.86	442	48.83
108	1.77	176	0.13	245	0.59	443	8.35
109	0.24	177	0.35	246	1.09	444	0.43
110	30.44	178	0.17	247	0.12		
111	3.91	179	2.31	254	0.07		


COMPUCHEM LABS
MASS SPECTRUM
11/12/85 9:41:00 + 6:33
SAMPLE: 2 UL BFB #16015 ON #11
DATA: BG851112A11 #129
BASE M/E: 95
RIC: 40576.
100.0
50.0
95
174
75
50
44
40
37
57
62
68
79
88
M/
40
60
80
100
120
140
160

COMPUCHEM LABS

MASS LIST DATA: BQ851112A11 # 129 BASE M/E: 95
12/85 9:41:00 + 6:33 RIC: 40376.
SAMPLE: 2 UL BFB #16015 ON #11

36 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 9360.
177 # 0 MAXIMA

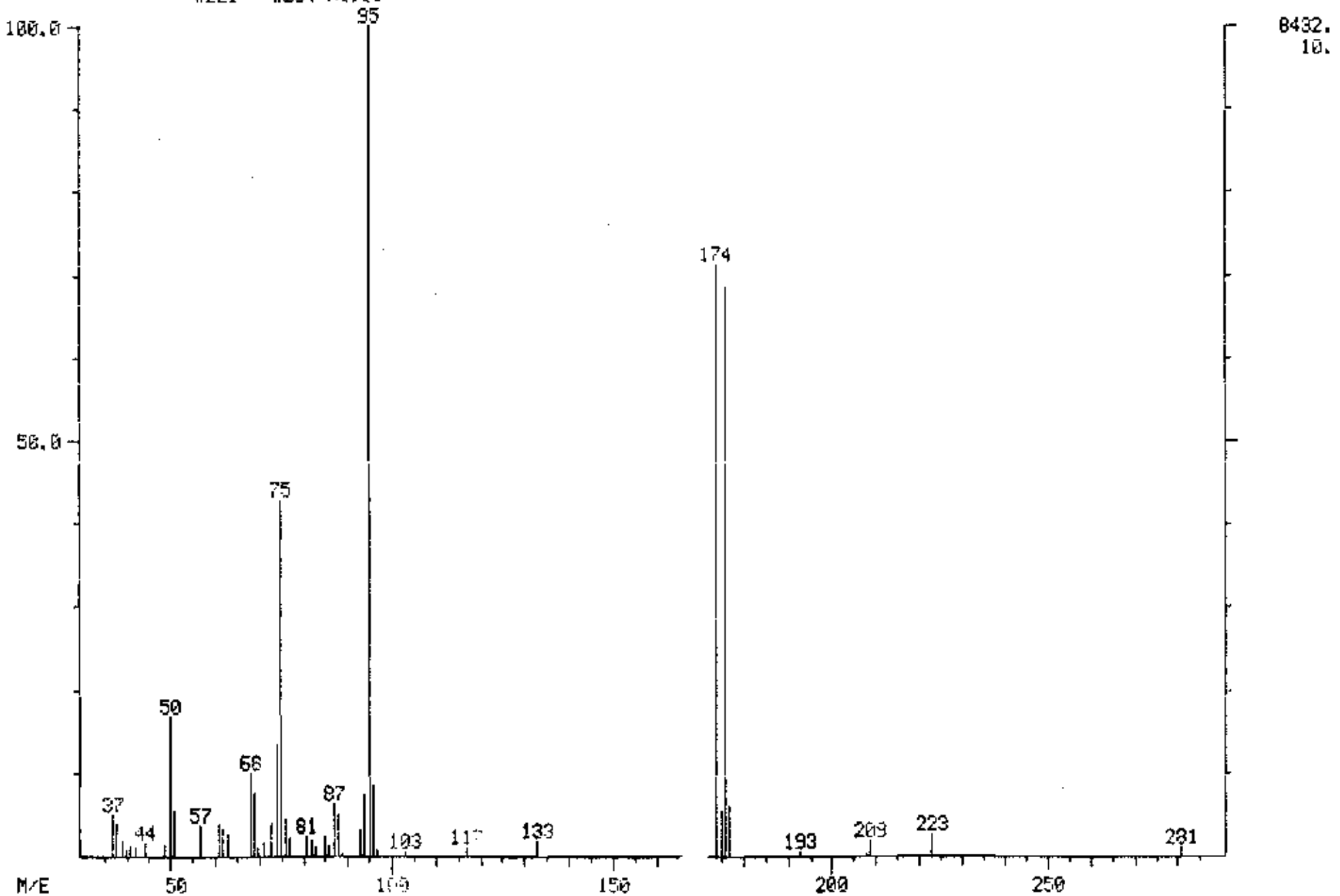
MASS	% RA
36	0.90
37	5.99
38	4.64
39	1.89
40	12.37
41	1.04
43	4.20
44	20.88
45	4.22
49	0.51
50	24.32
51	5.85
55	0.38
56	1.03
57	5.52
58	4.02
61	3.07
62	3.32
63	2.32
68	10.94
69	10.13
70	0.58
71	0.33
73	5.04
74	15.68
75	43.93
76	3.24
79	2.01
81	1.54
87	5.31
88	7.12
92	0.74
93	2.49
95	100.00
96	6.53
174	32.14
175	3.19
176	51.97
177	3.22

COMPUCHEM LABS

MASS SPECTRUM
11/26/85 21:44:00 + 11:14
SAMPLE: 2 UL BFB 16120
#221 - #254 X1.00

DATA: BFB51126B12 #221

BASE M/E: 95
RIC: 37184.



COMPUCHEM LABS

MASS LIST DATA: BF851126B12 # 221 BASE M/E: 95
11/26/85 21:44:00 + 11:14 RIC: 37184.
SAMPLE: 2 UL BFB 16120
#221 - #264 X1.00

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 8432.
281 # 0 MAXIMA

MASS	% RA
37	5.00
38	3.97
39	1.83
40	0.66
41	1.22
42	1.03
44	1.53
49	1.40
50	16.72
51	5.50
57	3.58
59	0.12
61	3.95
62	3.46
63	2.81
68	9.96
69	7.67
70	1.04
71	1.45
73	4.00
74	13.28
75	42.93
76	4.44
77	2.02
81	2.47
82	1.74
83	1.10
85	2.48
86	1.20
87	6.17
88	4.93
89	0.25
93	3.11
94	7.26
95	100.00
96	8.72
97	0.76
103	0.52
117	1.07
133	1.93
174	71.25
175	5.38
176	68.69
177	6.07
191	0.06
193	0.47
208	0.37
209	1.74
223	2.66
281	1.01

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CB851112A11
Sample matrix: liquid
Data Release Authorized By: _____

Case: WAS
SC Report No: _____
Contract No:
Date Sample Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed: 11-12-85
Conc/Dil Factor: 1.00
Percent moisture: N/A
Percent moisture (decanted):
pH:

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	79-00-5	1,1,2-Trichloroethene	5.0	U
67-64-1	Acetone	1.0	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

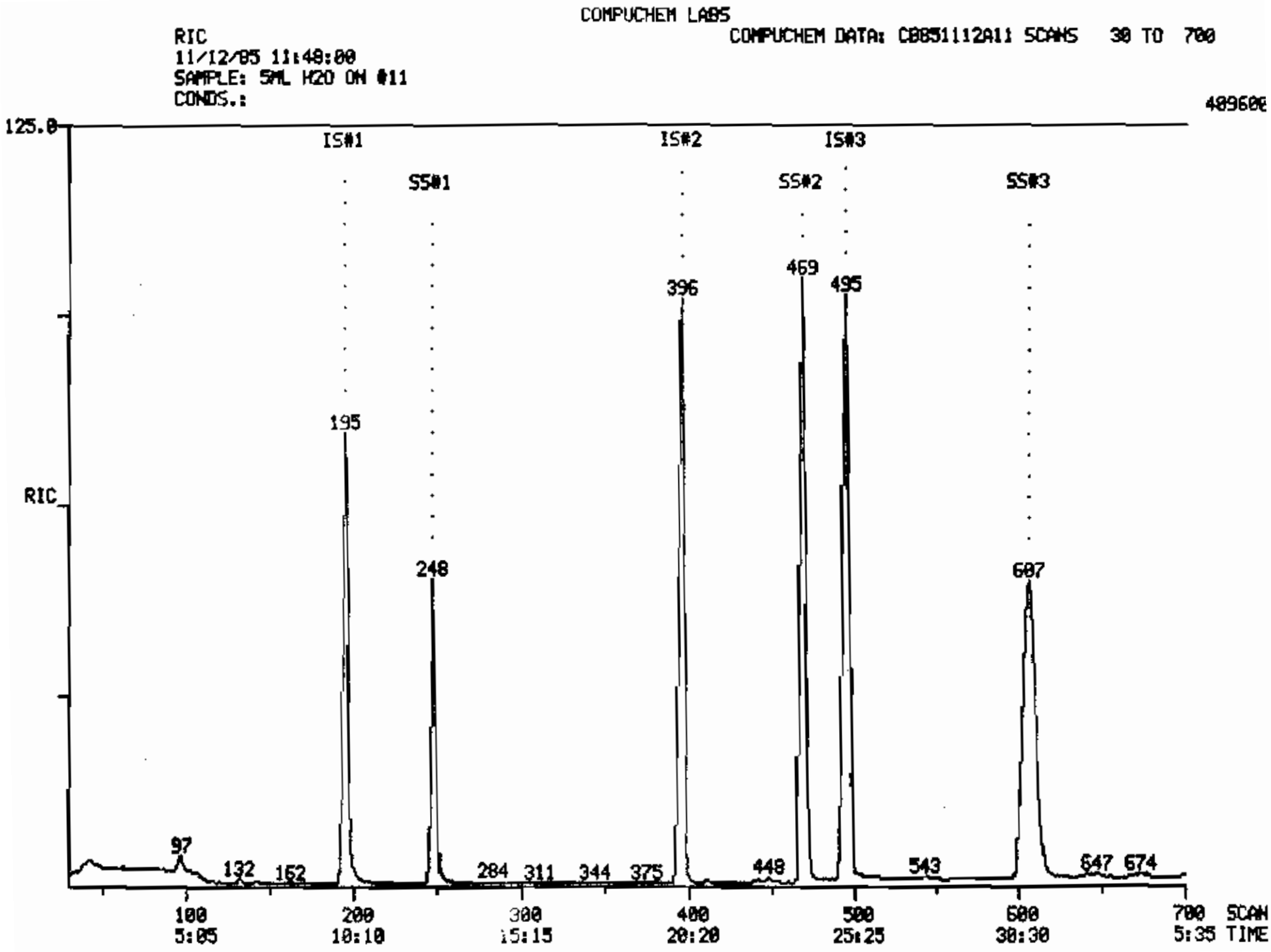
[illegible] Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				


COMPUCHEM LABS
RIC
11/12/05 11:48:00
SAMPLE: 5ML H2O ON #11
CONDS.:
COMPUCHEM DATA: CB051112A11 SCANS 30 TO 700
409600
125.0
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
469
396
495
195
248
687
RIC
97
132
162
284
311
344
375
448
543
647
674
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
5:35
SCAN
TIME

Internal Standard Area Monitor

thod: E237 Filename: CB851112A11 Date: 11/12/85
...ift Std: CT851112A11 Time: 11:48

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	110300.	105151.	5.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	427290.	431129.	-0.	Pass
*270 D5-CHLOROBENZENE (IS)	371718.	383477.	-3.	Pass

GUANTITATION REPORT FILE: CB851112A11

DA: CB851112A11.TI
../12/85 11:48:00
SAMPLE: 5ML H20 ON #11
CONDS.:
SUBMITTED BY: 11 ANALYST: 891

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

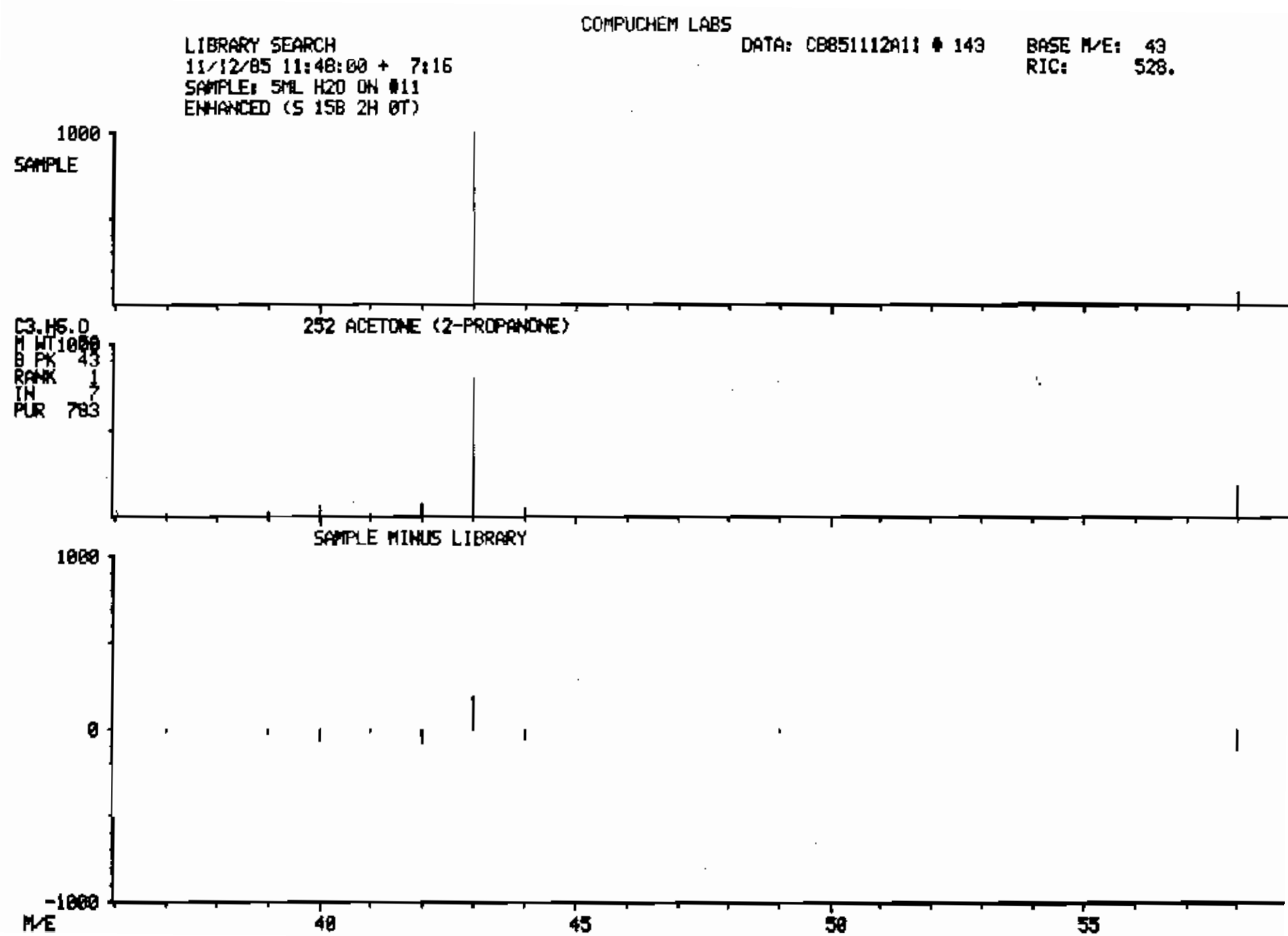
NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P-XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	195	9:33	1	1.000	A BB	110301.	50.000 UG/L	17.20
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	132	6:43	1	0.677	A BB	2358.	0.644 UG/L	0.22
(7)	43	143	7:16	1	0.733	A BB	1739.	1.761 UG/L	0.61
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	396	20:08	14	1.000	A BV	427291.	50.000 UG/L	17.20
(15)	72	247	12:33	14	0.624	A BB	779.	2.348 UG/L	0.81
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
`	117	495	25:10	29	1.000	A BB	371718.	50.000 UG/L	17.20
J	43	NOT FOUND							
(31)	43	441	22:25	29	0.691	A BB	3677.	1.325 UG/L	0.52
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUNO							
35	112	NOT FOUNO							
36	106	NOT FOUNO							
37	104	NOT FOUNO							
38	106	NOT FOUNO							
39	106	NOT FOUNO							
40	63	248	12:36	1	1.272	A BB	198766.	43.466 UG/L	14.95
41	95	607	30:51	29	1.226	A BV	296776.	47.177 UG/L	16.23
42	98	469	23:50	1	2.405	A BV	403422.	43.771 UG/L	15.06

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:58	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:59		10.000			50.00		2.249	
3	3:00		10.000			50.00		2.120	
4	3:46		10.000			50.00		2.336	
5	4:44		10.000			50.00		1.082	
6	6:49	0.99	5.000	0.14	0.64	50.00	0.021	1.661	0.01
7	7:19	0.99	10.000	0.07	1.76	50.00	0.016	0.448	0.04
8	8:14		5.000			50.00		5.047	
9	9:27		5.000			50.00		1.455	
10	10:44		5.000			50.00		3.070	
	11:23		5.000			50.00		1.457	
12	12:03		5.000			50.00		3.504	
13	12:46		5.000			50.00		2.328	
14	20:05	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
5	12:33	1.00	10.000	0.06	2.35	50.00	0.002	0.039	0.05
16	14:02		5.000			50.00		0.535	
17	14:26		5.000			50.00		0.513	
18	14:26		10.000			50.00		0.938	
19	14:57		5.000			50.00		0.809	
20	16:19		5.000			50.00		0.524	
21	16:31		5.000			50.00		0.267	
22	17:02		5.000			50.00		0.432	
23	17:47		5.000			50.00		0.603	
24	17:51		5.000			50.00		0.423	
25	17:32		5.000			50.00		1.128	
26	17:51		5.000			50.00		0.834	
27	18:52		10.000			50.00		0.306	
28	20:29		5.000			50.00		0.360	
29	25:07	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:54		10.000			50.00		0.494	
31	22:25	1.00	10.000	0.09	1.53	50.00	0.010	0.324	0.03
32	22:43		5.000			50.00		0.422	
33	22:46		5.000			50.00		0.656	
34	24:00		5.000			50.00		0.728	
35	25:16		5.000			50.00		0.976	
36	27:36		5.000			50.00		0.443	
37	32:35		5.000			50.00		0.985	
38	32:53		5.000			50.00		0.567	
39	34:13		5.000			100.00		0.536	
40	12:36	1.00	10.000	0.13	43.47	50.00	1.802	2.073	0.87
1	30:48	1.00	10.000	0.12	47.18	50.00	0.798	0.846	0.94
42	23:47	1.00	10.000	0.24	43.77	50.00	3.657	4.178	0.88

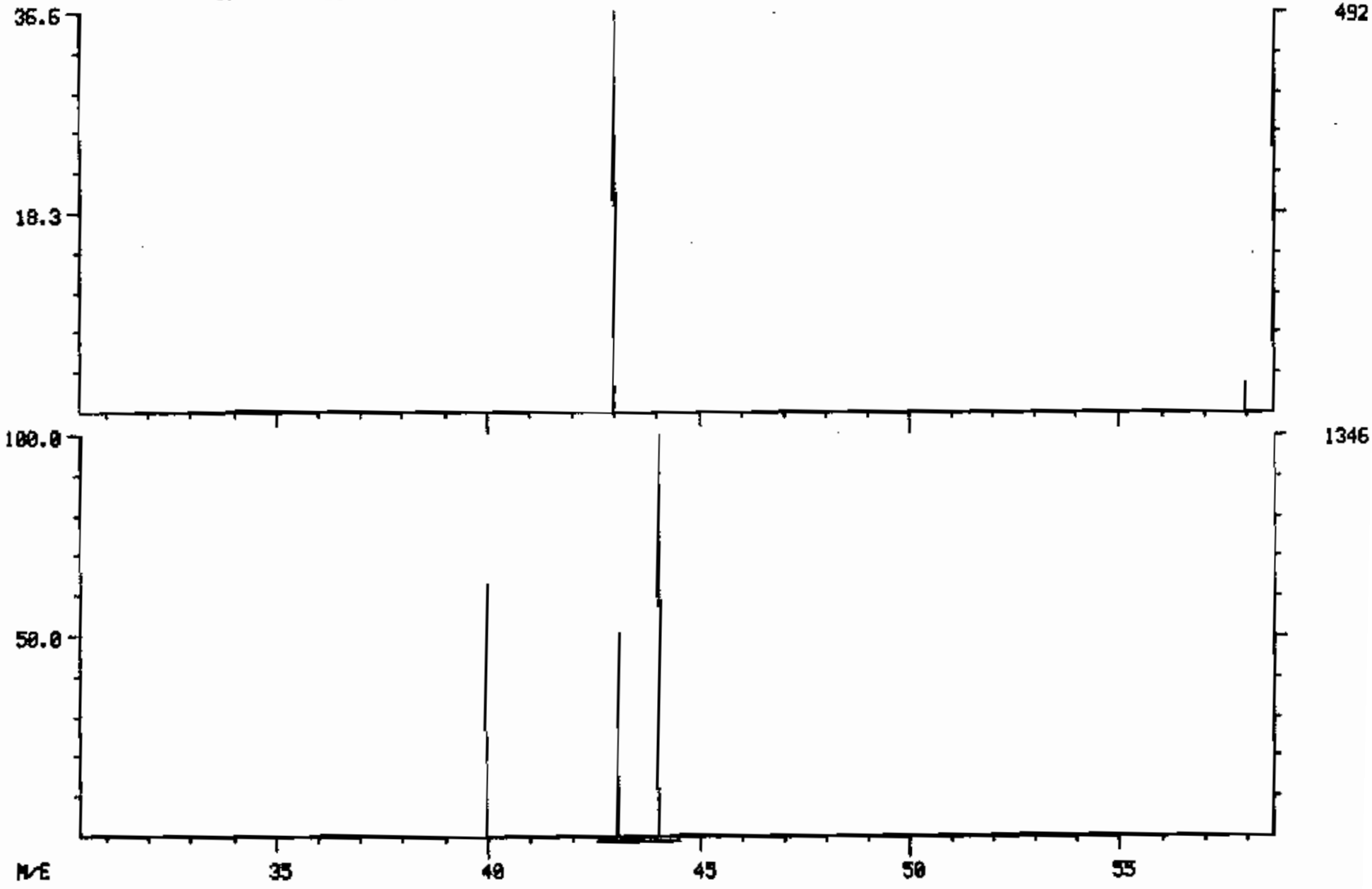

COMPUCHEM LABS
LIBRARY SEARCH
11/12/85 11:48:00 + 7:16
SAMPLE: 5ML H2O ON #11
ENHANCED (S 15B 2H 0T)
DATA: CB851112A11 # 143
BASE M/E: 43
RIC: 528.
1000
SAMPLE
C3.H6.O
M WT1000
B PK 43
RANK 1
IN 7
PUR 783
252 ACETONE (2-PROPANONE)
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
40
45
50
55

2-5-91

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/12/85 11:48:00 + 7:16
SAMPLE: 5ML H2O ON #11
ENHANCED (S 15B 2N)

DATA: CB851112A11 #143 BASE M/E: 43/ 44
RIC: 528./ 2875.



Volatile - Medium or Low Level Liquid

Cap #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	195	110000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE				BDL	5.
252	43		ACETONE (2-PROPANONE)			1.8	J	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	396	427000.	50.0		
253	72		2-BUTANONE			2.3	J BDL	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLOROPROPANE				BDL	5.
240	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
	130		TRICHLOROETHYLENE				BDL	5.
[illegible]	129		CHLORODIBROMOMETHANE				BDL	5.
228	97		1,1,2-TRICHLOROETHANE				BDL	5.
203	78		BENZENE				BDL	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	D5-CHLOROBENZENE (IS)	495	372000.	50.0		
255	43		2-HEXANONE				BDL	10.
256	43		4-METHYL-2-PENTANONE			1.5	J BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE				BDL	5.
207	112		CHLOROBENZENE				BDL	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P-XYLENE				BDL	5.
258	65	s	D4-1,2-DICHLOROETHANE			43.9	87. %	
247	95	s	BROMOFLUOROBENZENE			47.2	94. %	
233	98	s	D8-TOLUENE			43.8	88. %	
Checksums:								
2251.	775			1086	909000.	290.1	269.	

HB 11-13-85

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	43.5	50.0	87.	77-120	X	
41	247	BROMOFLUOROBENZENE	47.2	50.0	94.	85-121	X	
42	233	D8-TOLUENE	43.8	50.0	88.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5000\ ul}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000\ ul}{5000.\ (ul)} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

BJB 11-13-85

version 4

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 (703)557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
Page 1

Laboratory Name: Columbia
Lab Sample ID No: CB851126B12
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS
QC Report No: _____
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed: 11-26-85
Dilution Factor: 1.00
Percent moisture: N/A
Percent moisture (decanted):
pH:

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	2.1	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	111-44-4	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
7-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethene	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, record the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and each description attached to the data summary report.

P.O Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number:
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
4.				
5.				
6.				
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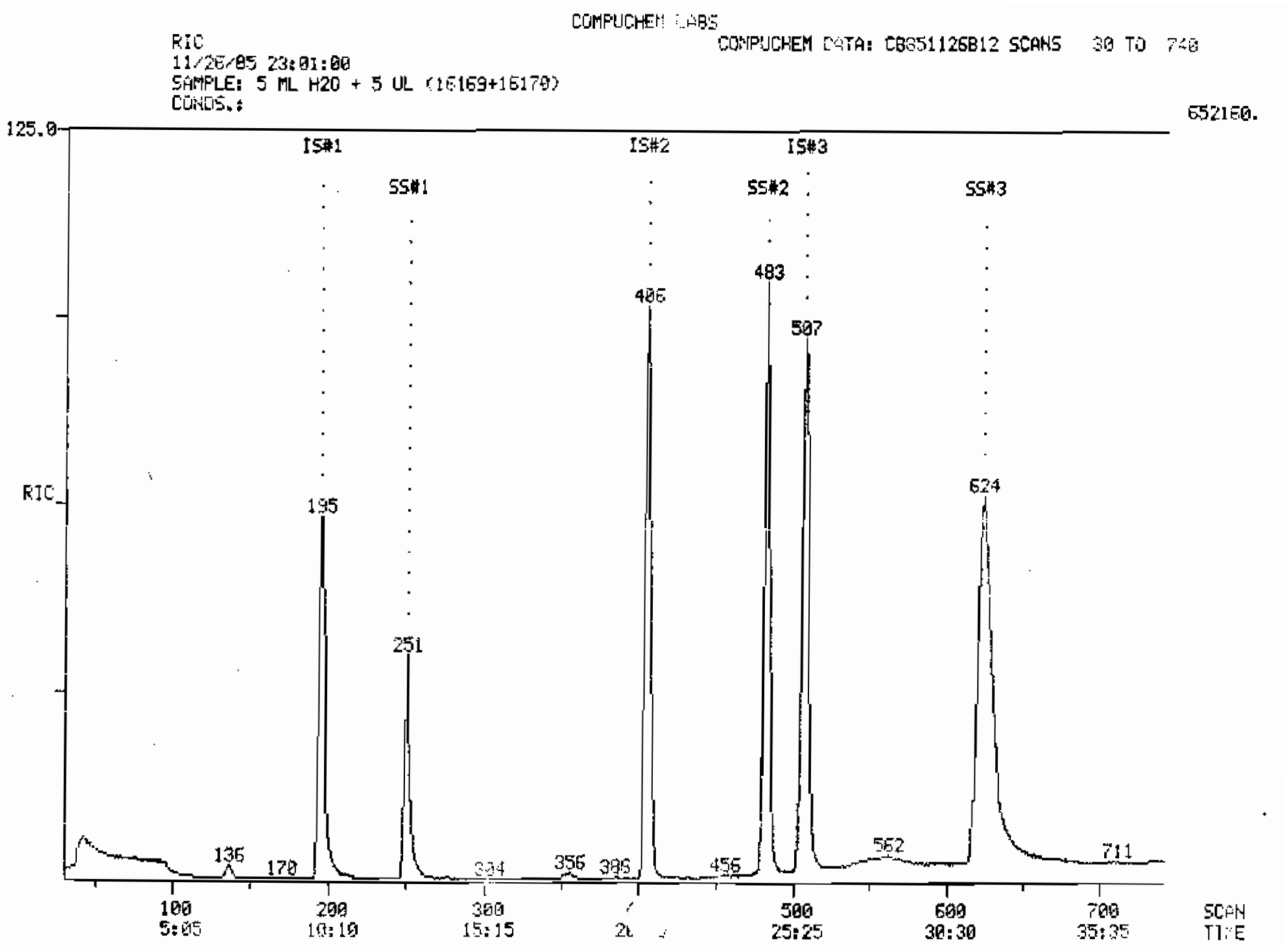
25.				
26.				
27.				
28.				
29.				
30.				


COMPUCHEM LABS
RIC
11/26/05 23:01:00
SAMPLE: 5 ML H20 + 5 UL (16169+16170)
CONDS.:
COMPUCHEM DATA: CB051126B12 SCANS 30 TO 740
652160.
125.0
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
483
406
507
624
195
251
RIC
136
170
334
356
386
456
562
711
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

Inter

Method: E237 Filename: CB851126B12 Date: 11/26/85
Shift Std: CSB51126B12 Time: 23:01

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	207904.	205428.	1.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	838863.	847986.	-0.	Pass
*270 D5-CHLOROBENZENE (IS)	730227.	781248.	-6.	Pass

QUANTITATION REPORT FILE: CB851126B12

DATA: CB851126B12.TI
26/85 23:01:00
PLE: 5 ML H2O + 5 UL (16169+16170)
CONDS. :
SUBMITTED BY: 12 ANALYST: B90

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
	257 VINYL ACETATE
	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	#258 D4-1,2-DICHLOROETHANE
41	#247 BROMOFLUOROBENZENE
42	#233 D8-TOLUENE

M/E	SCAN	TIME	REF	RRT	METH	AREA|HGHT	AMOUNT	%TOT
1	128	195	9:55	1	1.000	A BB	207905.	50.000 UG/L	16.75
2	50	NOT FOUND						

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
	64	NOT FOUND								
	84	136	6:55	1	0.697	A BB	12392.	2.130	UG/L	0.71
7	43	151	7:41	1	0.774	A BB	1092.	0.751	UG/L	0.25
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	406	20:38	14	1.000	A BB	838864.	50.000	UG/L	16.75
15	72	255	12:58	14	0.628	A BB	1874.	2.454	UG/L	0.82
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	507	25:46	29	1.000	A BB	730227.	50.000	UG/L	16.75
30	43	NOT FOUND								
	43	NOT FOUND								
	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	251	12:46	1	1.287	A BB	273749.	47.478	UG/L	15.90
41	95	624	31:43	29	1.231	A BB	569490.	48.821	UG/L	16.35
42	98	482	24:30	1	2.472	A BB	824607.	46.929	UG/L	15.72

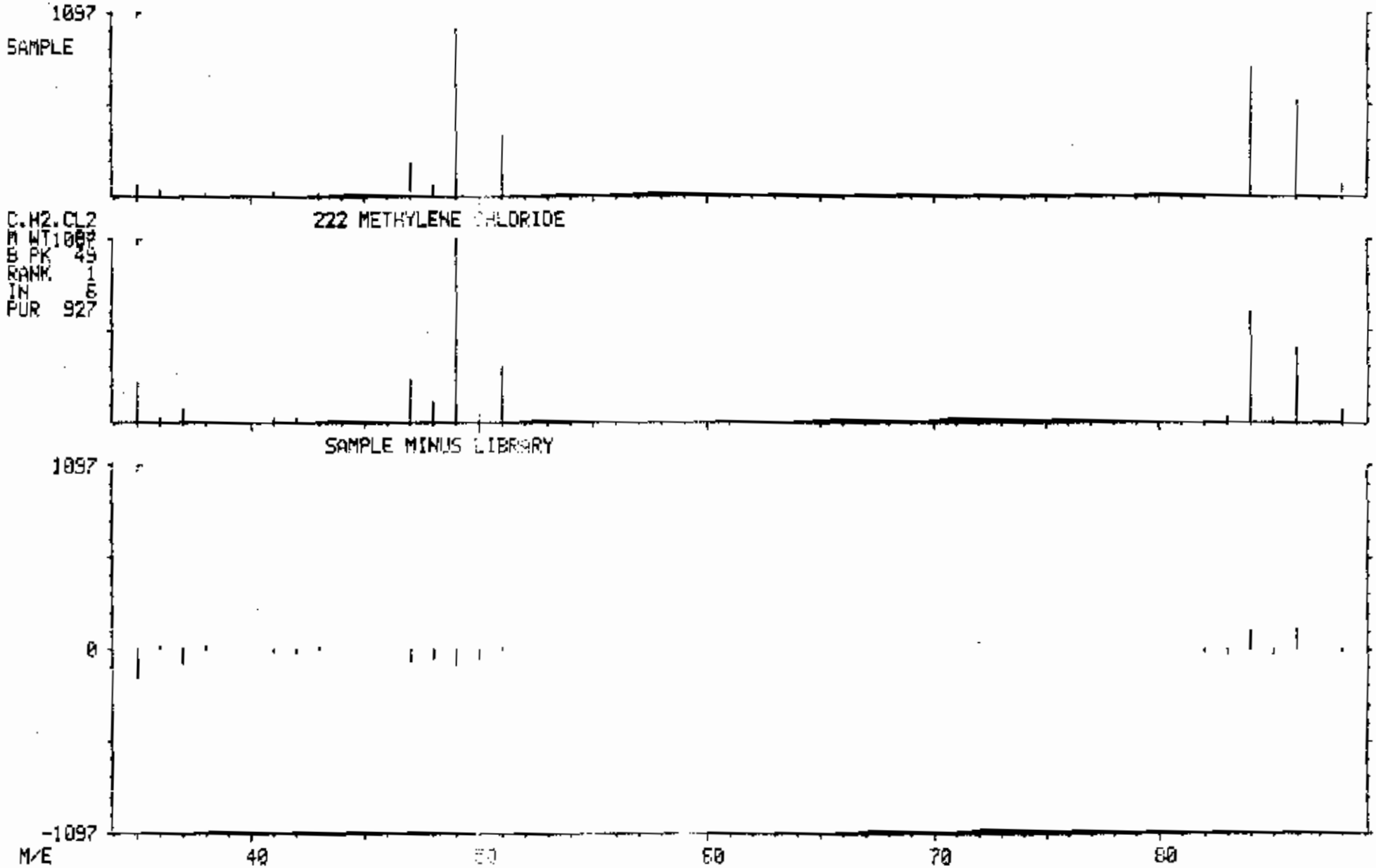
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:52	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:53		10.000			50.00		0.743	
3	2:48		10.000			50.00		1.853	
4	3:43		10.000			50.00		1.167	
5	4:34		10.000			50.00		0.809	
6	6:49	1.01	5.000	0.14	2.13	50.00	0.060	1.399	0.04
7	7:34	1.01	10.000	0.08	0.75	50.00	0.005	0.350	0.02
8	8:38		5.000			50.00		4.114	
9	9:39		5.000			50.00		1.282	
10	10:50		5.000			50.00		2.322	
11	11:38		5.000			50.00		1.396	
12	11:57		5.000			50.00		2.543	
	12:49		5.000			50.00		1.494	
14	20:35	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:55	1.00	10.000	0.06	2.45	50.00	0.002	0.046	0.05
16	14:08		5.000			50.00		0.401	
17	14:32		5.000			50.00		0.374	
18	14:48		10.000			50.00		0.464	
19	14:51		5.000			50.00		0.542	
20	16:25		5.000			50.00		0.450	
21	16:40		5.000			50.00		0.246	
22	17:17		5.000			50.00		0.433	
23	17:41		5.000			50.00		0.434	
24	17:54		5.000			50.00		0.404	
25	18:00		5.000			50.00		0.932	
26	18:00		5.000			50.00		0.657	
27	19:10		10.000			50.00		0.250	
28	20:26		5.000			50.00		0.297	
29	25:46	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.453	
31	22:56		10.000			50.00		0.273	
32	23:08		5.000			50.00		0.355	
33	22:49		5.000			50.00		0.821	
34	24:42		5.000			50.00		0.697	
35	25:52		5.000			50.00		0.952	
36	28:28		5.000			50.00		0.494	
37	34:00		5.000			50.00		1.051	
38	34:31		5.000			50.00		0.608	
39	35:53		5.000			100.00		0.589	
40	12:42	1.00	50.000	0.03	47.48	50.00	1.317	1.387	0.95
41	31:40	1.00	50.000	0.02	48.82	50.00	0.780	0.799	0.98
42	24:30	1.00	50.000	0.05	46.93	50.00	3.966	4.226	0.94

COMPUCHEM LABS

LIBRARY SEARCH
11/26/85 23:01:00 + 6:55
SAMPLE: 5 ML H2O + 5 UL (16162+16170)
ENHANCED (5 15B 2N 0T)

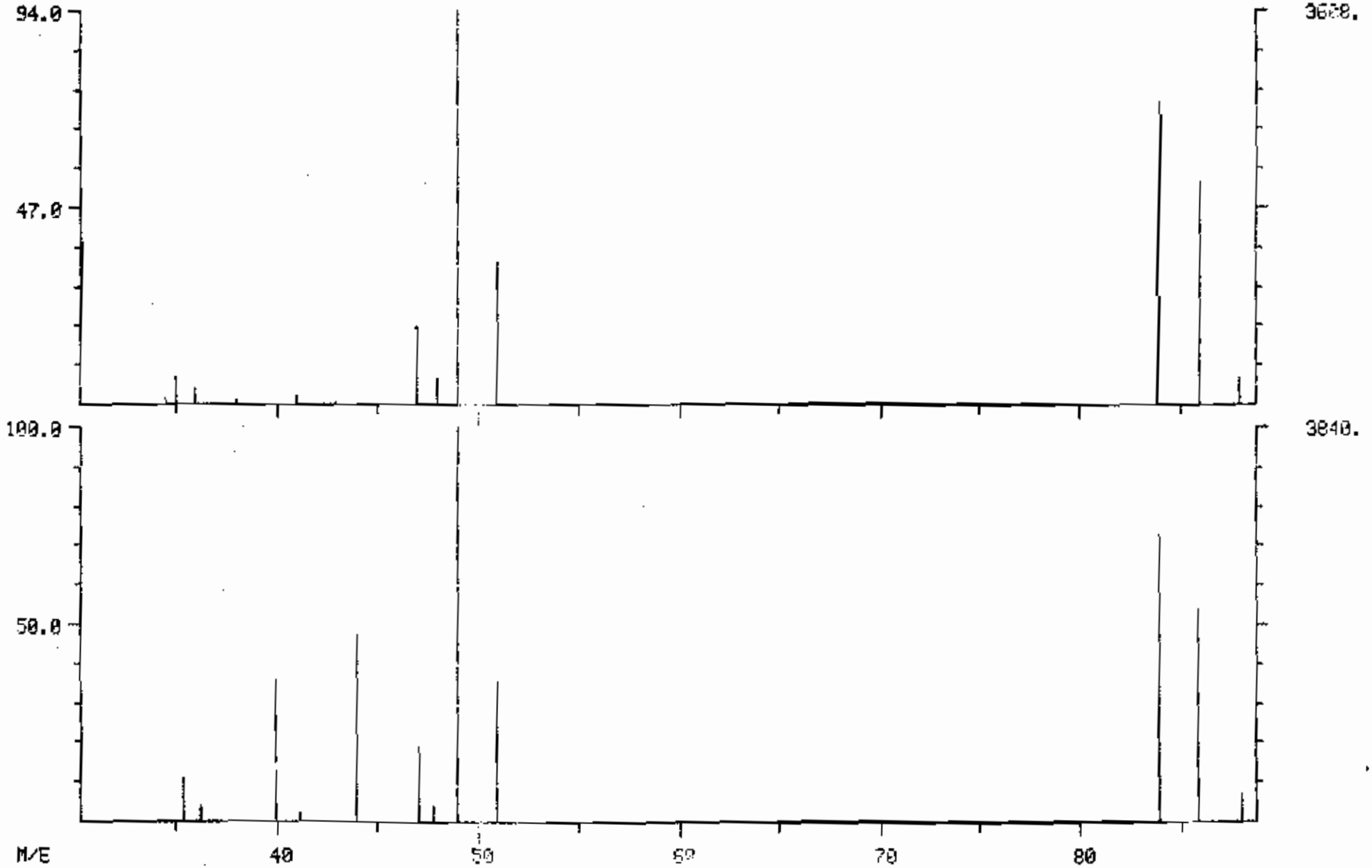
DATA: CB85112SB12 # 136
BASE M/E: 49
RIC: 11407.



COMPUCHEM LABS

DUAL MASS SPECTRUM
11/26/85 23:01:00 + 6:5%
SAMPLE: 5 ML H2O + 5 UL (169+16170)
ENHANCED (5 15B 2N)

DATA: CB851126B12 #136 BASE M/E: 49/ 49
RIC: 11407./ 15039.



Volatile - Medium or Low Level Liquid

Cmp	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	195	208000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE			2.1	J	5.
252	43		ACETONE (2-PROPANONE)				BDL	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	406	839000.	50.0		
253	72		2-BUTANONE			2.4	J	
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5
217	63		1,2-DICHLOROPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE				BDL	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
228	97		1,1,2-TRICHLOROETHANE				BDL	5.
1	78		BENZENE				BDL	5.
213	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	05-CHLORODENZENE (IS)	507	730000.	50.0		
255	43		2-HEXANONE				BDL	10.
256	43		4-METHYL-2-PENTANONE				BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE				BDL	5.
207	112		CHLOROBENZENE				BDL	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P XYLENE				BDL	5.
258	65	s	D4-1,2-DICHLOROETHANE			47.5	95. %	
247	95	s	BROMOFLUOROBENZENE			48.8	98. %	
233	98	s	D8-TOLUENE			46.9	94. %	
Checksums:								
1965.	773			1108	1777000.	297.7	287.	

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	47.5	50.0	95.	77-120	X	
41	247	BROMOFLUOROBENZENE	48.8	50.0	98.	85-121	X	
42	233	DB-TOLUENE	46.9	50.0	94.	86-119	X	

\# Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ✓

rection Factor Calculation:

$$\frac{5000\ ul}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000\ ul}{5000.\ (ul)} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
CN066522C12

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN066522C12
Sample matrix: Liquid
Data Release
Authorized by: _____

Case: 468
GC Report No: _____
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 11-27-85
Date analyzed: 11-27-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	1.0	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	1.1	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	**5.0**	**U**		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

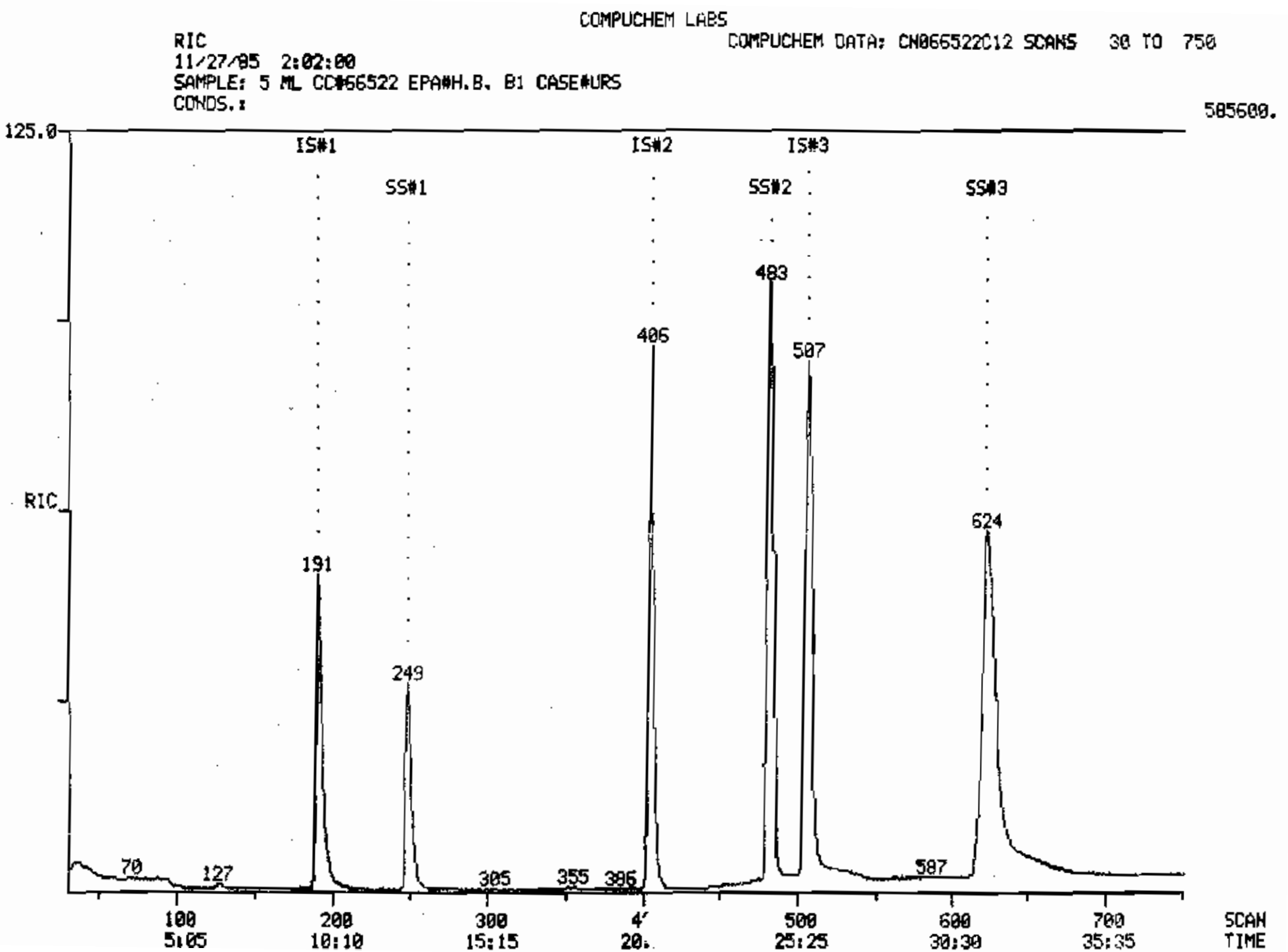
Environmental Protection Agency. CLP Sample Management Office.
P. O Box 818, Alexandria Virginia 22313 703/557-2490

Sample Number
CNA6522C12

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN066522C12 SCANS 30 TO 750
11/27/85 2:02:00
SAMPLE: 5 ML CC#66522 EPA#H.B. B1 CASE#URS
CONDS.:
585600.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
483
406
507
624
191
249
RIC
70
127
305
355
386
587
100
5:05
200
10:10
300
15:15
400
20:
500
25:25
600
30:30
700
35:35
SCAN
TIME

Internal Standard Area Monitor

Method: E237 Filename: CN066522C12 Date: 11/27/85
Shift Std: CS851126812 Time: 2:02

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	166622.	205428.	-18.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	705712.	847986.	-16.	Pass
*270 D5-CHLOROBENZENE (IS)	614805.	781248.	-20.	Pass

QUANTITATION REPORT FILE: CN066522C12

DATA: CN066522C12.TI
11/27/85 2:02:00
SAMPLE: 5 ML CC#66522 EPA#H.B. B1 CASE#URS
ID.:
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
[illegible]	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	#258 D4-1,2-DICHLOROETHANE
41	#247 BROMOFLUOROBENZENE
42	#233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	128	191	9:43	1	1.000	A BB	166622.	50.000 UG/L	16.43
	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	127	6:27	1	0.665	A BB	4904.	1.052 UG/L	0.35
7	43	146	7:25	1	0.764	A*BB	1276.	1.095 UG/L	0.36
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	406	20:38	14	1.000	A BB	705713.	50.000 UG/L	16.43
15	72	252	12:49	14	0.621	A BB	676.	1.052 UG/L	0.35
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	507	25:46	29	1.000	A BB	614806.	50.000 UG/L	16.43
30	43	NOT FOUND							
	43	NOT FOUND							
	164	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	249	12:39	1	1.304	A BV	228968.	49.551 UG/L	16.28
41	95	624	31:43	29	1.231	A BB	487505.	49.639 UG/L	16.31
42	98	482	24:30	1	2.524	A BB	732435.	52.011 UG/L	17.09

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:52	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:53		10.000			50.00		0.743	
3	2:48		10.000			50.00		1.853	
4	3:43		10.000			50.00		1.167	
5	4:34		10.000			50.00		0.809	
6	6:49	0.95	5.000	0.13	1.05	50.00	0.029	1.399	0.02
7	7:34	0.98	10.000	0.08	1.09	50.00	0.008	0.350	0.02
8	8:38		5.000			50.00		4.114	
9	9:39		5.000			50.00		1.282	
10	10:50		5.000			50.00		2.322	
11	11:38		5.000			50.00		1.396	
12	11:57		5.000			50.00		2.543	
	12:49		5.000			50.00		1.494	
	20:35	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

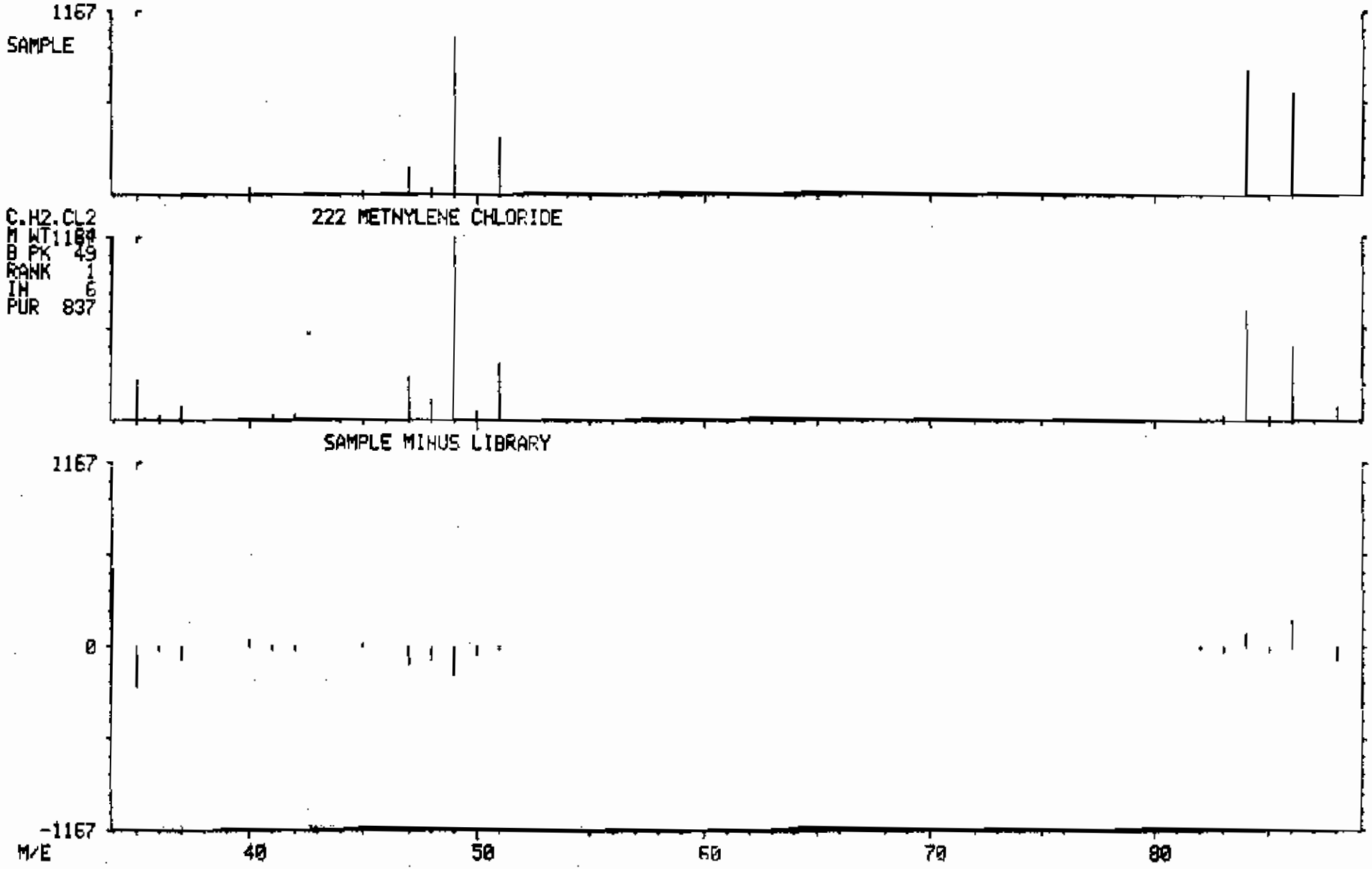
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:55	0.99	10.000	0.06	1.05	50.00	0.001	0.046	0.02
16	14:08		5.000			50.00		0.401	
17	14:32		5.000			50.00		0.374	
3	14:48		10.000			50.00		0.464	
.9	14:51		5.000			50.00		0.542	
20	16:25		5.000			50.00		0.450	
21	16:40		5.000			50.00		0.246	
22	17:17		5.000			50.00		0.433	
23	17:41		5.000			50.00		0.434	
24	17:54		5.000			50.00		0.404	
25	18:00		5.000			50.00		0.932	
26	18:00		5.000			50.00		0.657	
27	19:10		10.000			50.00		0.250	
28	20:26		5.000			50.00		0.297	
29	25:46	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.453	
31	22:56		10.000			50.00		0.273	
32	23:08		5.000			50.00		0.355	
33	22:49		5.000			50.00		0.821	
34	24:42		5.000			50.00		0.697	
35	25:52		5.000			50.00		0.952	
36	28:28		5.000			50.00		0.494	
37	34:00		5.000			50.00		1.051	
38	34:31		5.000			50.00		0.608	
39	35:53		5.000			100.00		0.589	
40	12:42	1.00	50.000	0.03	49.55	50.00	1.374	1.387	0.99
41	31:40	1.00	50.000	0.02	49.64	50.00	0.793	0.799	0.99
42	24:30	1.00	50.000	0.05	52.01	50.00	4.396	4.226	1.04

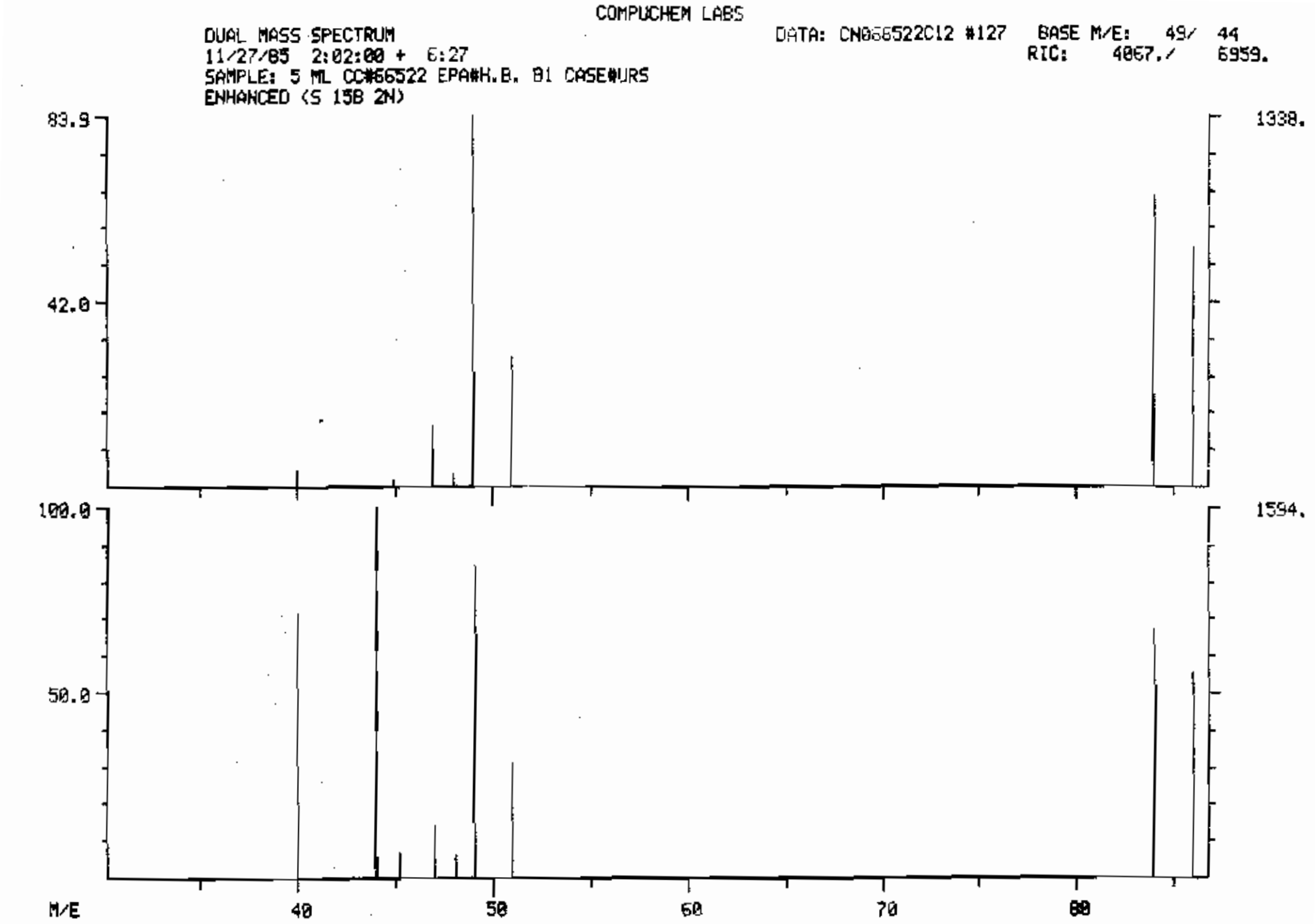
COMPUCHEM LABS

LIBRARY SEARCH
11/27/85 2:02:00 + 6:27
SAMPLE: 5 ML CC#66522 EPA#N.B. 81 CASE#URS
ENHANCED (S 15B 2M 0T)

DATA: CN066522C12 # 127

BASE M/E: 49
RIC: 4067.

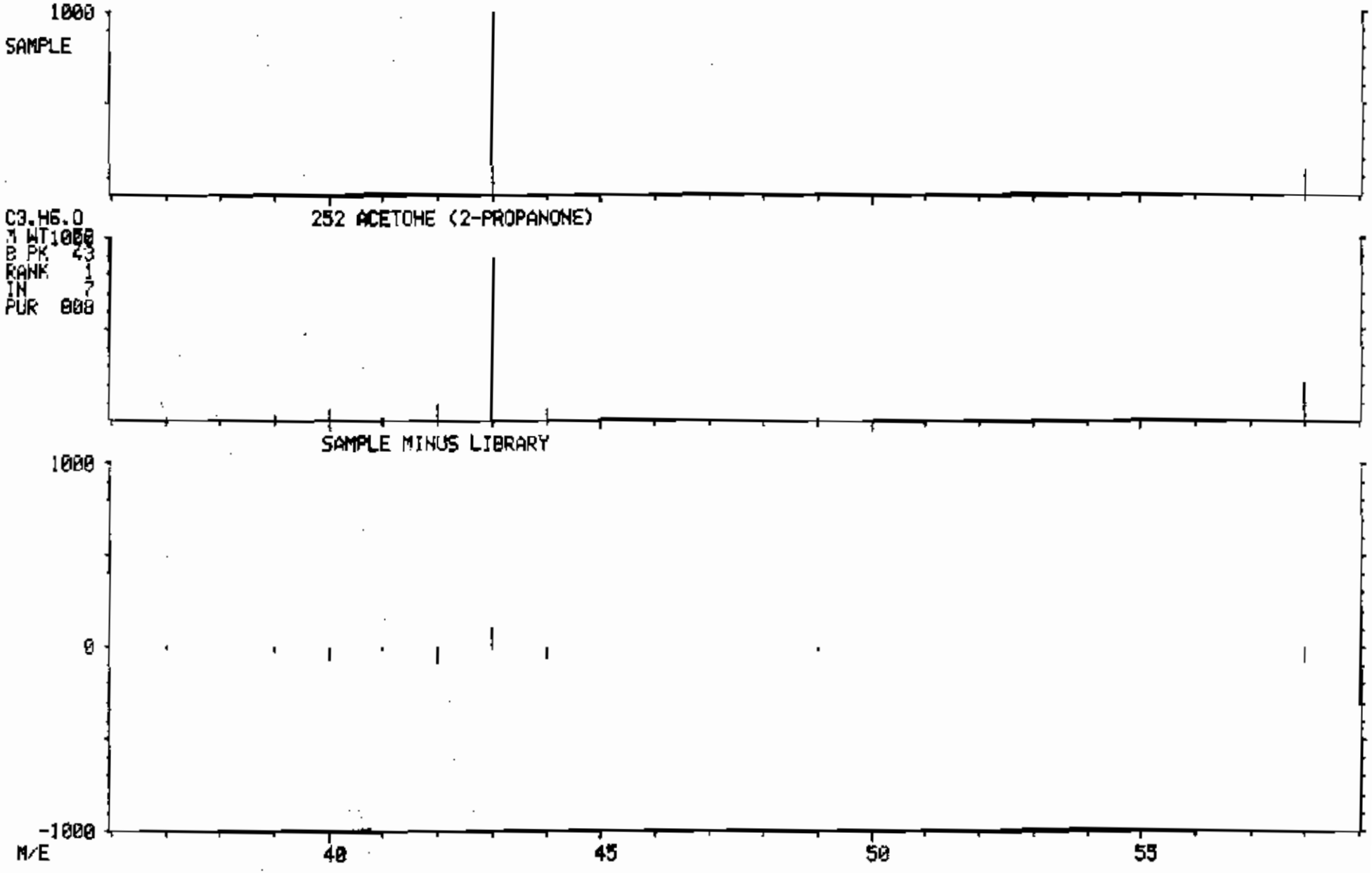



COMPUCHEM LABS
DUAL MASS SPECTRUM
11/27/85 2:02:00 + 6:27
SAMPLE: 5 ML CC#66522 EPA#H.B. 81 CASE#URS
ENHANCED (S 15B 2N)
DATA: CN066522C12 #127
BASE M/E: 49/ 44
RIC: 4067./ 6959.
83.9
42.0
1338.
100.0
50.0
1594.
M/E
40
50
60
70
80

COMPUCHEM LABS

LIBRARY SEARCH
11/27/85 2:02:00 + 7:25
SAMPLE: 5 ML CC#66522 EPA#H.B. B1 CASE#URS
ENHANCED (S 15B 2N 0T)

DATA: CH066522C12 # 146
BASE M/E: 43
RIC: 229.

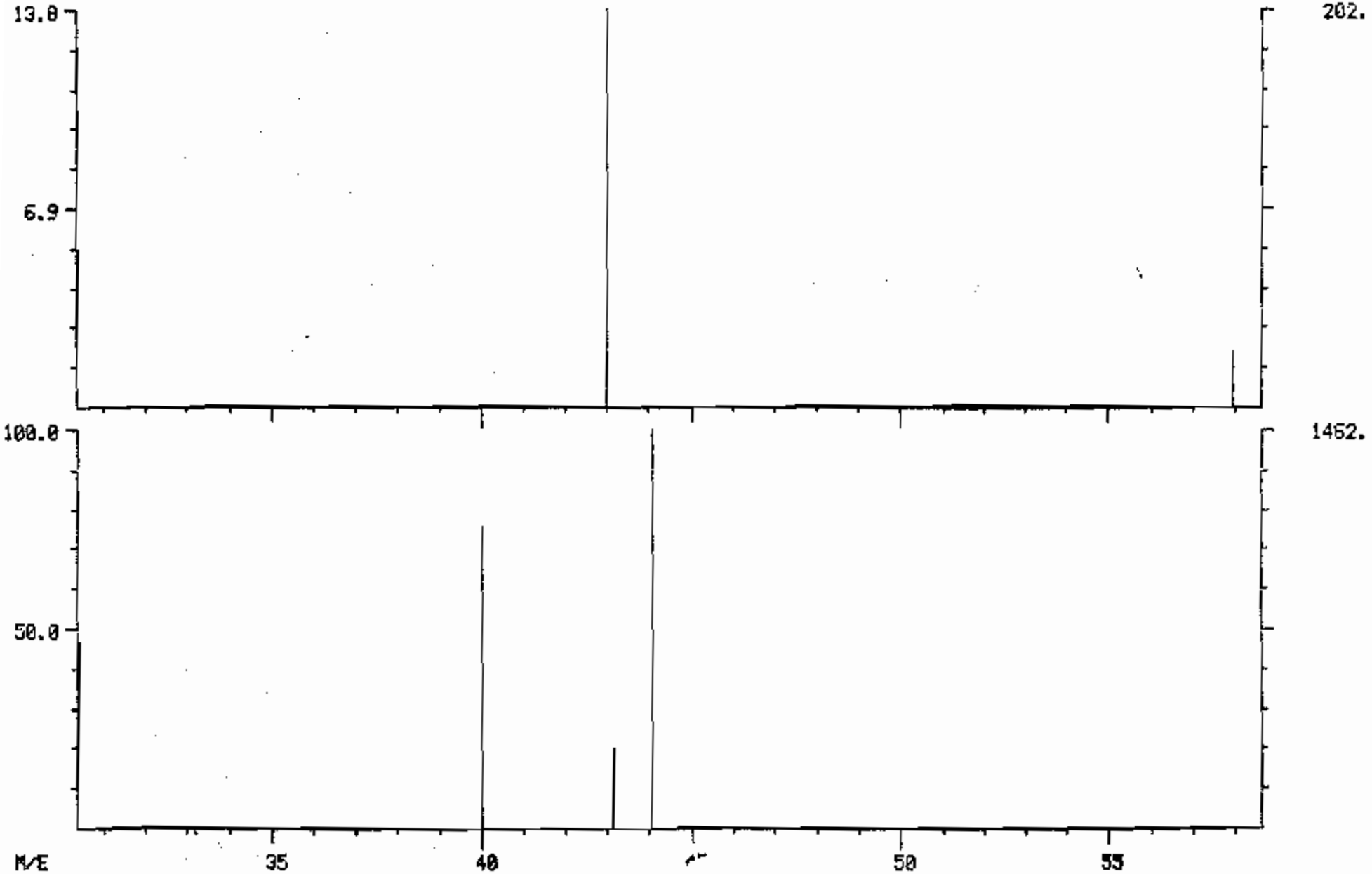


252

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/27/85 2:02:00 + 7:25
SAMPLE: 5 ML CC#66522 EPA#N.B. B1 CASE#URS
ENHANCED (S 150 2N)

DATA: CN066522C12 #146 BASE M/E: 43/ 44
RIC: 229./ 2867.



CASE#: URS DUE DATE:

VOA
GC/MS WORKSHEET COMPUCHEM#: 66522

J1[ ] J3[ ] D1[ ] (:1)
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: HB

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF85112GB12 Disk(12)
Blank Filename CBB85126B12 Disk ( )
Standard Filename CS5511.26B12 Disk ( )
Sample Filename CN66522C12 Disk (2)

ANALYST(S): Injection RC Work-up RC

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR IF,LA,DI,CO,RH,DW,SI,SF UP,BB,OT,VC,FO,SM

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 2

[ ] Reinject Neat

[ ] Dilute (:1)

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review DAH Date 11/27/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN66522C12 /_____

QA COMMENTS:

Initials_____ Date 11/27/85

FINAL REVIEW: Initials_____ Date___/___/___

Volatile - Medium or Low Level Liquid

	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	191	167000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE			1.0	J	5.
252	43		ACETONE (2-PROPANONE)			1.1	J	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	406	706000.	50.0		
253	72		2-BUTANONE			~~1.0~~	JBDL	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLOROPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE				BDL	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
[illegible]	97		1,1,2-TRICHLOROETHANE				BDL	5.
	78		BENZENE				BDL	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	D5-CHLOROBENZENE (IS)	507	615000.	50.0		
255	43		2-HEXANONE				BDL	10.
256	43		4-METHYL-2-PENTANONE				BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE				BDL	5.
207	112		CHLOROBENZENE				BDL	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P XYLENE				BDL	5.
258	65	s	D4-1,2-DICHLOROETHANE			49.6	99. %	
247	95	s	BROMOFLUOROBENZENE			49.6	99. %	
233	98	s	D8-TOLUENE			52.0	104. %	
Checksums:								
2217.	816			1104	1488000.	304.3	302.	

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	49.6	50.0	99.	77-120	X	
41	247	BROMOFLUOROBENZENE	49.6	50.0	99.	85-121	X	
42	233	D8-TOLUENE	52.0	50.0	104.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	/	

Correction Factor Calculation:

$$\frac{5000 \text{ ul}}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000 \text{ ul}}{5000. \text{ (ul)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
BH069657B15

Organics Analysis Data Sheet
(Page 2)

Laboratory Name: CompuChem

Semivolatile Compounds
Concentration: low
Date extracted/prepared: 12-04-85
Date analyzed: 12-04-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	[illegible]	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER BLANK#1

COMPUCHEM FILE GH069657B15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

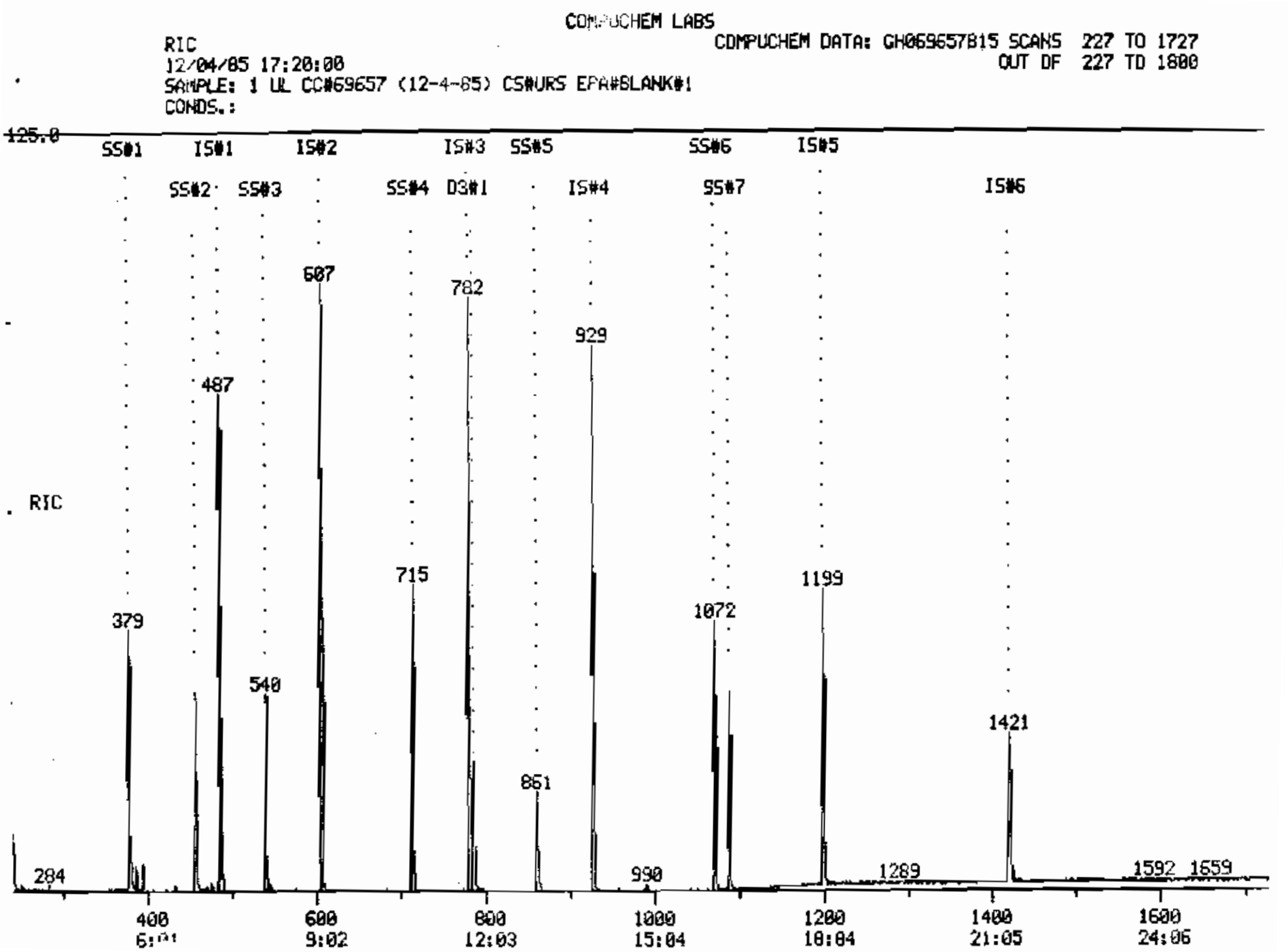
TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
108-97-2	CYCLOHEXANE, METHYL-	SEMI3	241	11.	J,B
13189-13-4	~~1H-IMIDAZOLE-4-CARBOXAMIDE, N-PHENYL-~~	SEMI3	786	20.	J

2.000 40.00

SPECTROSCOPIST _____

DATE _____


COMPUCHEM LABS
RIC
12/04/85 17:20:00
SAMPLE: 1 UL CC#69657 (12-4-85) CS#URS EPA#BLANK#1
CONDS.:
COMPUCHEM DATA: GH069657B15 SCANS 227 TO 1727
OUT OF 227 TO 1800
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
DB#1
IS#4
SS#7
IS#6
607
782
929
487
715
1199
379
1072
540
1421
861
284
990
1289
1592
1659
RIC
400
600
800
1000
1200
1400
1600
6:01
9:02
12:03
15:04
18:04
21:05
24:06

COMPUCHEM LABS

RIC
12/04/85 17:20:00
SAMPLE: 1 UL CC#69657 (12-4-85) CS#URS EPA#BLANK#1
CONDS.:

COMPUCHEM DATA: GH069657015 SCANS 1727 TO 1800
OUT OF 227 TO 1800

335360.

1800
27:07

SCAN
TIME

METHOD: SEMI3 FILENAME: GH069657B15 DATE: 12/04/85
SHIFT STD: HG851204C15 TIME: 17:20

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	68580.	74195.	-7.	PASS
*460 D8-NAPHTHALENE (IS#2)	235751.	272311.	-12.	PASS
*495 D10-ACENAPHTHENE (IS#3)	93003.	113551.	-17.	PASS
*467 D10-PHENANTHRENE (IS#4)	144271.	147003.	-1.	PASS
*459 D12-CHRYSENE (IS#5)	85419.	103383.	-16.	PASS
*497 D12-PERYLENE (IS#6)	84479.	99647.	-14.	PASS

pH 12.5.85

DATA: GH069657B15.TI
12/04/85 17:20:00
SAMPLE: 1 UL CC#69657 (12-4-85) CS#URS EPA#BLANK#1
CONDS. :
SUBMITTED BY: 15 ANALYST: 803

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#1B) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <11B-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <B7-B6-5>
55	444 PHENANTHRENE (G4#7) <B5-01-B>
56	403 ANTHRACENE (G4#B) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <B4-74-2>
5B	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <B5-6B-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <21B-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-B>
72	427 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	[illegible]THRACENE ([illegible]3-70-3
74	408 BENZO(G,H,I)PERYLENE (G6#B) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

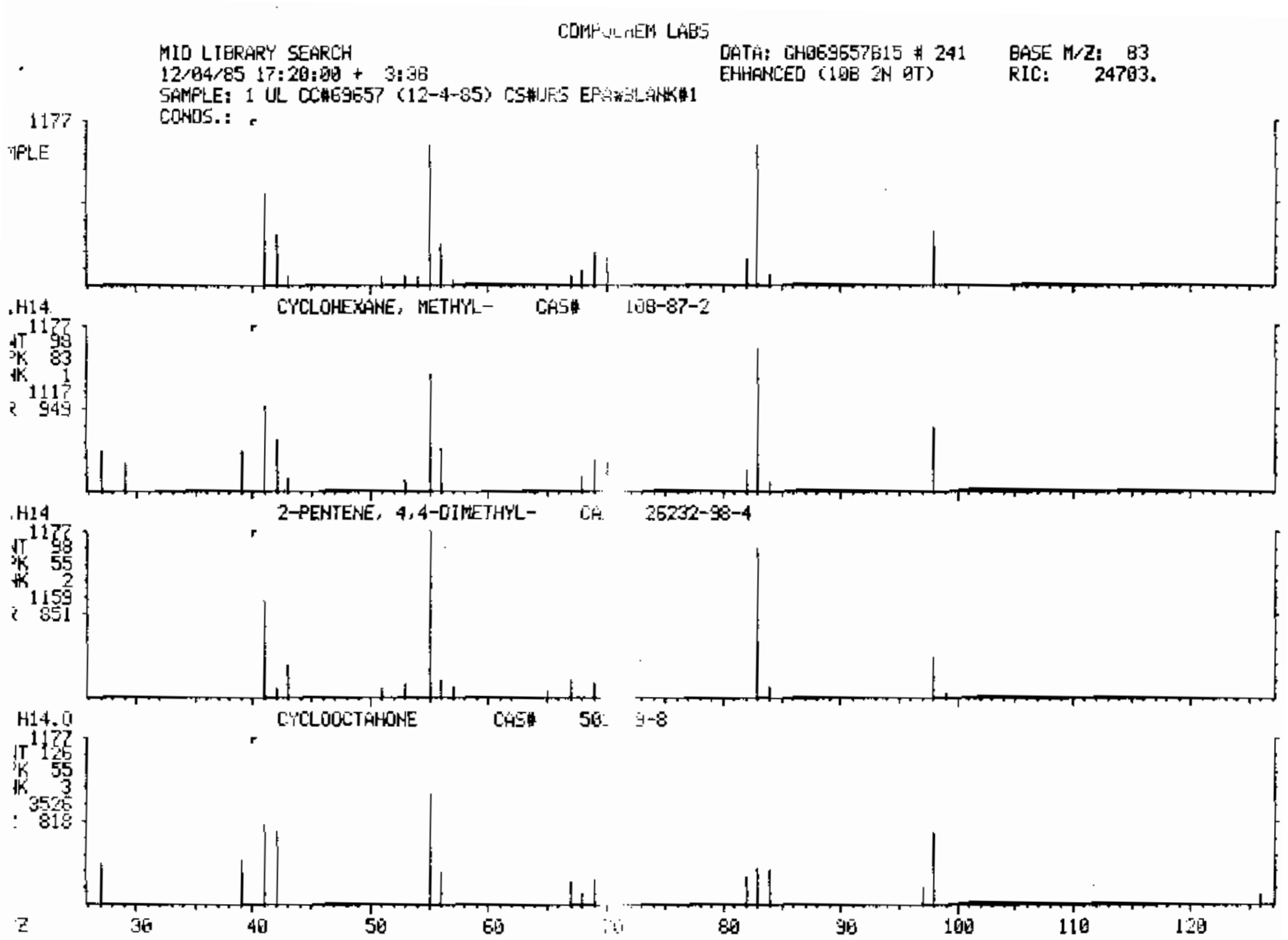
NO	H/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	487	7:20	1	1.000	A BB	68580.	40.000 NG	9.88
2	42	NOT FOUND							
3	94	NOT FOUND							
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	108	NOT FOUND							
14	70	NOT FOUND							
15	117	NOT FOUND							
16	77	NOT FOUND							
17	136	607	9:09	17	1.000	A BV	235752.	40.000 NG	9.88
18	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	NOT FOUND							
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	NOT FOUND							
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	NOT FOUND							
29	142	NOT FOUND							
30	164	782	11:47	30	1.000	A BB	93004.	40.000 NG	9.88
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	NOT FOUND							
37	152	NOT FOUND							
38	138	NOT FOUND							
39	153	NOT FOUND							
40	184	NOT FOUND							
41	139	NOT FOUND							
42	168	NOT FOUND							
43	89	NOT FOUND							
44	165	NOT FOUND							
45	149	NOT FOUND							
46	204	NOT FOUND							
47	166	NOT FOUND							
48	138	NOT FOUND							
49	188	929	14:00	49	1.000	A BV	144272.	40.000 NG	9.88
50	198	NOT FOUND							
51	169	NOT FOUND							
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	NOT FOUND							
55	178	NOT FOUND							
56	178	NOT FOUND							
57	149	NOT FOUND							
58	202	NOT FOUND							
59	240	1199	18:03	59	1.000	A BV	85420.	40.000 NG	9.88
60	184	NOT FOUND							
61	202	NOT FOUND							
62	149	NOT FOUND							
63	252	NOT FOUND							
64	228	NOT FOUND							
65	149	NOT FOUND							
66	228	NOT FOUND							
67	264	1421	21:24	67	1.000	A BV	84480.	40.000 NG	9.88
68	149	NOT FOUND							
69	252	NOT FOUND							
70	252	NOT FOUND							
71	252	NOT FOUND							
72	276	NOT FOUND							
73	278	NOT FOUND							
74	276	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	379	5:42	1	0.778	A BV	69540.	23.404 NG	5.78
76	99	458	6:54	1	0.940	A BV	58208.	13.933 NG	3.44
77	82	540	8:08	17	0.890	A BB	47792.	14.713 NG	3.63
78	172	715	10:46	30	0.914	A BB	82708.	25.602 NG	6.32
79	141	861	12:58	30	1.101	A BV	6492.	30.486 NG	7.53
80	244	1089	16:24	59	0.908	A BB	60152.	28.893 NG	7.14
81	212	1072	16:09	59	0.894	A BB	80904.	27.888 NG	6.89
82	216	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:17	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:52		10.000			50.00		1.546	
3	6:51		10.000			50.00		2.817	
4	6:53		10.000			50.00		1.941	
5	6:57		10.000			50.00		2.346	
6	7:02		10.000			50.00		1.605	
7	7:14		10.000			50.00		1.603	
8	7:18		10.000			50.00		1.650	
9	7:29		10.000			50.00		1.107	
10	7:34		10.000			50.00		1.511	
11	7:39		10.000			50.00		1.474	
12	7:43		10.000			50.00		3.418	
13	7:51		10.000			50.00		1.651	
14	7:54		10.000			50.00		1.741	
15	8:00		10.000			50.00		0.842	
16	8:05		10.000			50.00		2.081	
17	9:05	[illegible]	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:25		10.000			50.00		1.052	
19	8:32		10.000			50.00		0.206	
20	8:36		10.000			50.00		0.365	
21	8:44		50.000			50.00		0.201	
22	8:44		10.000			50.00		0.611	
23	8:53		10.000			50.00		0.271	
24	9:01		10.000			50.00		0.295	
25	9:07		10.000			50.00		1.192	
26	9:11		10.000			50.00		0.383	
27	9:23		10.000			50.00		0.140	
28	9:54		10.000			50.00		0.417	
29	10:06		10.000			50.00		0.656	
30	11:41	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:27		10.000			50.00		0.275	
32	10:33		10.000			100.00		0.368	
33	10:33		50.000			100.00		0.368	
34	10:50		10.000			50.00		1.353	
35	11:00		50.000			50.00		0.556	
36	11:20		10.000			50.00		1.406	
37	11:27		10.000			50.00		1.990	
38	11:37		50.000			50.00		0.310	
39	11:44		10.000			50.00		1.353	
40	11:46		50.000			50.00		0.080	
41	11:50		50.000			50.00		0.253	
42	11:58		10.000			50.00		1.666	
43	11:59		10.000			50.00		0.479	
44	11:25		10.000			50.00		0.300	
45	11:27		10.000			50.00		0.040	
46	12:28		10.000			50.00		0.488	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	12:29		10.000			50.00		1.321	
48	12:31		50.000			50.00		0.287	
49	13:52	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:36		50.000			50.00		0.088	
51	12:39		10.000			50.00		0.614	
52	13:12		10.000			50.00		0.202	
53	13:25		10.000			50.00		0.276	
54	13:41		50.000			50.00		0.109	
55	13:55		10.000			50.00		1.225	
56	13:59		10.000			50.00		1.104	
57	14:48		10.000			50.00		1.742	
58	15:43		10.000			50.00		1.070	
59	17:53	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:16		50.000			50.00		0.016	
61	16:02		10.000			50.00		1.586	
62	17:02		10.000			50.00		0.879	
63	17:47		20.000			50.00		0.304	
64	17:51		10.000			50.00		1.230	
65	17:56		10.000			50.00		1.388	
66	17:55		10.000			50.00		1.195	
67	21:03	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:05		10.000			50.00		2.530	
69	20:06		10.000			50.00		1.070	
70	20:06		10.000			50.00		1.070	
71	20:54		10.000			50.00		1.156	
72	24:47		10.000			50.00		1.523	
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	
75	5:40	1.01	0.742	1.05	23.40	50.00	0.811	1.733	0.47
76	6:50	1.01	0.948	0.99	13.93	50.00	0.679	2.437	0.28
77	8:04	1.01	0.875	1.02	14.71	50.00	0.162	0.551	0.29
78	10:41	1.01	0.906	1.01	25.60	50.00	0.711	1.389	0.51
79	12:52	1.01	1.118	0.98	30.49	50.00	0.056	0.092	0.61
80	16:16	1.01	0.907	1.00	28.89	50.00	0.563	0.975	0.58
81	16:01	1.01	10.000	0.09	27.89	50.00	0.758	1.358	0.56
82	10:51		10.000			50.00		0.212	


COMPUCHEM LABS
MID LIBRARY SEARCH
12/04/85 17:20:00 + 3:38
SAMPLE: 1 UL CC#69657 (12-4-85) CS#URS EPA#BLANK#1
CONDS.:
DATA: GH069657B15 # 241
ENHANCED (10B 2N 0T)
BASE M/Z: 83
RIC: 24703.
1177
MPLE
CYCLOHEXANE, METHYL- CAS# 108-87-2
2-PENTENE, 4,4-DIMETHYL- CA 26232-98-4
CYCLOOCTANONE CAS#
30
40
50
60
80
90
100
110
120

CASE#: UA5 DUE DATE: 12/6

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 69657

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SAS: EPA#: Blank #1

GC/MS AHALYSIS
Volumes mixed: BH 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 12 / 4 / 85
DFIPP Filename 05851204C15 Disk (3034)
Standard Filename HG851204C15 Disk ( )
Sample Filename GHO69657815 Disk ( )

ANALYSIS Injection 802 Work-up 603

GC/MS REVIEW

CONDITION CODE: C.Y.

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS ED,IF,LA,DI,CD,RN,DW,DA

Extraneous Peak Search Results:
# of Peaks Found: 1

Quality Assurance Notice(s):
Notices Required

COMMENTS: PEAO 12/5

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review KH Date 12/5/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections:
Final Raportable Package(s):

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials 12/5 Date / /

EPAWATER (1

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	487	68600.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	20.
610	94		PHENOL (Q1#3) <108-95-2>				BDL	20.
473	93		ANILINE (Q1#4) <62-53-3>				BDL	20.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20.
601	128		2-CHLOROPHENOL (Q1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	20.
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	20.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20.
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	20.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20.
460	136	I	D8-NAPHTHALENE (IS#2)	607	23600D.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	20.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	20.
439	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	20.
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	20
608	107		P-CHLORO-M-CRESOL (Q2#12) <				BDL	20.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	782	93000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	20
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (Q3#10) <83-32				BDL	20.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	100.
607	139		4-NITROPHENOL (Q3#12) <100-				BDL	100.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (Q3#14)				BDL	20.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (Q3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	929	144000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	20
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	20
609	266		PENTACHLOROPHENOL (Q4#6) <8				BDL	100

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTHRENE (Q4#7) <85-01-				BDL	20
403	178		ANTHRACENE (Q4#8) <120-12-7				BDL	20.
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	20.
431	202		FLUORANTHENE (Q4#10) <206-4				BDL	20.
459	240	I	D12-CHRYSENE (IS#5)	1199	85400.	40.0		
404	184		BENZIDINE (Q5#2) <92-87-5>				BDL	100.
445	202		PYRENE (Q5#3) <129-00-0>				BDL	20.
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (Q5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1421	84500.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	20.
406	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	20
619	112	S	2-FLUOROPHENOL (SS#1)			23.4	47.%	
612	99	S	D5-PHENOL (SS#2)			13.9	28.%	
447	82	S	D5-NITROBENZENE (SS#3)			14.7	59.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			25.6	102.%	
625	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			30.5	61.%	
496	244	S	D14-TERPHENYL (SS#6)			28.9	116.%	
171	212	S	D10-PYRENE			27.9	112.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	20
CHECKSUMS:								
6593.	2206			5425	711500.	404.9	525.	

19.5.85

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	23.4	50.0	47.	23-121	X	
76	612	D5-PHENOL (SS#2)	13.9	50.0	28.	15-103	X	
77	447	D5-NITROBENZENE (SS#3)	14.7	25.0	59.	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	25.6	25.0	102.	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	30.5	50.0	61.	10-130	X	
80	496	D14-TERPHENYL (SS#6)	28.9	25.0	116.	33-128	X	
81	471	D10-PYRENE	27.9	25.0	112.	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	___	___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1000.ML}}{\text{1000.ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{500 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{\text{500 UL}}{\text{500 UL}} \times \frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

51

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Morris + Quincy

DATE ASSIGNED 12-4-85

PAGE _____ OF _____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (mL)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
66513R	-56	CLRS				1000ml		1.0	1.0		13	1	12/4	
69657				BI		1000ml		1.0	1.0		13		12/4	
69658	↓	↓		B2		1000ml		1.0	1.0		13		12/4	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT						
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 272/691

FINAL VOLUME VERIFIED M.S.

SUPERVISOR REVIEWED M.D

EXTRACTS RECEIVED BY TH 12/4/85

№ 7848

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
6M0867B1A16

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 11-09-85
Date analyzed: 11-16-85
Cont/Oil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	[illegible]	[illegible]	[illegible]	4,6-Dinitro-2-methylphenol	[illegible]	[illegible]
[illegible]	N-Nitroso-di-n-propylamine	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
[illegible]	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER BLANK-1

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH066783A16

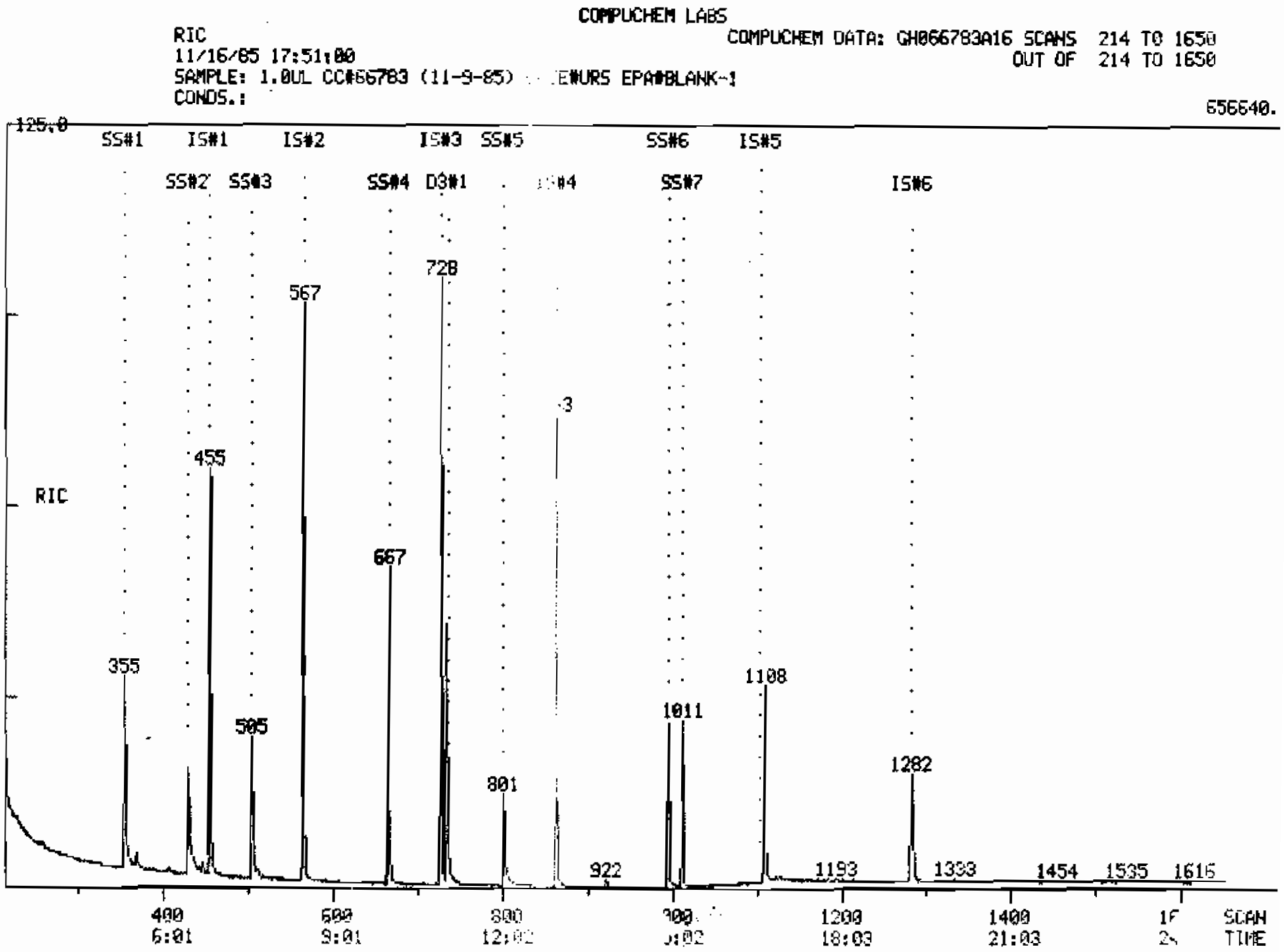
TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-87-2	CYCLOHEXANE, METHYL-	SEMI3	216	10.	J
2	~~13189-13-4~~	~~1H-IMIDAZOLE-4-CARBOXAMIDE, N-PHENYL-~~	SEMI3	733	51.	J

2.000 40.00

SPECTROSCOPIST AR

DATE 11-18-85


COMPUCHEM LABS
RIC
11/16/85 17:51:00
SAMPLE: 1.0UL CC#66783 (11-9-85) ..E#URS EPA#BLANK-1
CONDS.:
COMPUCHEM DATA: GH066783A16 SCANS 214 TO 1650
OUT OF 214 TO 1650
656640.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
SS#7
IS#6
728
567
455
667
355
505
801
1108
1011
1282
922
1193
1333
1454
1535
1615
RIC
400
6:01
600
9:01
800
12:02
1200
18:03
1400
21:03
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI3 FILENAME: GH066783A16 DATE: 11/16/85
SHIFT STD: J851116A16 TIME: 17:51

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	~~124315.~~ 124315	113467.	10.	PASS
*460 D8-NAPHTHALENE (IS#2)	418955.	392411.	7.	PASS
*495 D10-ACENAPHTHENE (IS#3)	180879.	175763.	3.	PASS
*467 D10-PHENANTHRENE (IS#4)	208995.	198963.	5.	PASS
*459 D12-CHRYSENE (IS#5)	~~65584 0.~~	86295.	~~-99.~~ -1.	~~FAIL~~ Pass
*497 O12-PERYLENE (IS#6)	75195.	77411	-2.	PASS

QUANTITATION REPORT FILE: GH066783A16

DATA: GH066783A16.TI
11/16/85 17:51:00
MPLE: 1.0UL CC#66783 (11-9-85) CASE#URS EPA#BLANK-1
UNDS.:
SUBMITTED BY: 16 ANALYST: 644

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (G1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (01#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	441 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
19	606 2-NITROPHENOL (G2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
21	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (G3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	408 BENZO(K)FLUORA[illegible] (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	455	6:51	1	1.000	A BV	124316.	40.000 NG	9.09
2	42	NOT FOUND							
3	94	NOT FOUND							
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	108	NOT FOUND							
14	70	NOT FOUND							
15	117	NOT FOUND							
16	77	NOT FOUND							
	136	567	8:32	17	1.000	A BV	418956.	40.000 NG	9.09
18	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	NOT FOUND							
20	122	NOT FOUND							
	122	NOT FOUND							
	93	NOT FOUND							
23	162	NOT FOUND							
24	180	NOT FOUND							
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	NOT FOUND							
29	142	NOT FOUND							
30	164	728	10:57	30	1.000	A BV	180880.	40.000 NG	9.09
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	NOT FOUND							
37	152	NOT FOUND							
38	138	NOT FOUND							
39	153	NOT FOUND							
40	184	NOT FOUND							
41	139	NOT FOUND							
		NOT FOUND							
43	69	NOT FOUND							
44	165	NOT FOUND							
45	149	NOT FOUND							
46	204	NOT FOUND							
	166	NOT FOUND							
	138	NOT FOUND							
49	188	863	12:59	49	1.000	A BV	208996.	40.000 NG	9.09
50	198	NOT FOUND							
51	169	NOT FOUND							
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	NOT FOUND							
55	178	NOT FOUND							
56	178	NOT FOUND							
57	149	NOT FOUND							
58	202	NOT FOUND							
59	240	1107	16:39	59	1.000	A BV	85584.	40.000 NG	9.09
60	184	994	14:57	59	0.898	A BB	1472.	22.219 NG	5.054
61	202	NOT FOUND							
62	149	NOT FOUND							
63	252	NOT FOUND							
64	228	NOT FOUND							
65	149	NOT FOUND							
66	228	NOT FOUND							
67	264	1282	19:17	67	1.000	A BV	75196.	40.000 NG	9.09
68	149	NOT FOUND							
69	252	NOT FOUND							
70	252	NOT FOUND							
71	252	NOT FOUND							
72	276	NOT FOUND							
	278	NOT FOUND							
74	276	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
75	112	355	5:20	1	0.780	A BV	116924.	26.534	NG	6.03
76	99	430	6:28	1	0.945	A BV	116836.	19.384	NG	4.41
7	82	505	7:36	17	0.891	A BV	100284.	21.052	NG	4.79
/8	172	667	10:02	30	0.916	A BV	156620.	26.202	NG	5.96
79	141	801	12:03	30	1.100	A BV	12384.	32.679	NG	7.43
80	244	1011	15:12	59	0.913	A BV	67732.	26.526	NG	6.03
81	212	994	14:57	59	0.898	A BV	101184.	25.292	NG	5.75
82	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:56	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:40		10.000			50.00		0.581	
3	6:33		10.000			50.00		2.151	
4	6:33		10.000			50.00		1.988	
5	6:39		10.000			50.00		1.767	
6	6:42		10.000			50.00		1.490	
7	6:52		10.000			50.00		1.603	
8	6:57		10.000			50.00		1.780	
9	7:09		10.000			50.00		0.293	
10	7:11		10.000			50.00		1.566	
11	7:18		10.000			50.00		1.512	
12	7:21		10.000			50.00		1.852	
13	7:29		10.000			[illegible]		1.633	
[illegible]	7:31		[illegible]			[illegible]		[illegible]	
15	7:36		10.000			50.00		0.698	
16	7:42		10.000			50.00		1.685	
17	8:37	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:01		10.000			50.00		0.918	
[illegible]	8:07		3.000			50.00		0.199	
20	8:12		6.000			50.00		0.340	
21	8:22		50.000			50.00		0.225	
22	8:19		10.000			50.00		0.477	
23	8:27		10.000			50.00		0.294	
24	8:33		10.000			50.00		0.336	
25	8:38		10.000			50.00		1.077	
26	8:44		10.000			50.00		0.285	
27	8:54		10.000			50.00		0.159	
28	9:25		10.000			50.00		0.347	
29	9:35		10.000			50.00		0.656	
30	11:03	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	9:55		10.000			50.00		0.262	
32	10:01		10.000			100.00		0.364	
33	10:01		50.000			100.00		0.364	
34	10:15		10.000			50.00		1.312	
35	10:26		50.000			50.00		0.461	
36	10:44		10.000			50.00		1.195	
37	10:50		10.000			50.00		1.790	
38	11:01		50.000			50.00		0.116	
39	11:06		10.000			50.00		1.253	
40	11:09		50.000			50.00		0.107	
41	11:19		50.000			50.00		0.815	
42	11:19		10.000			50.00		1.576	
43	11:22		10.000			50.00		0.370	
[illegible]	10:50		10.000			50.00		0.271	
/	11:44		10.000			50.00		1.308	
46	11:48		10.000			50.00		0.471	

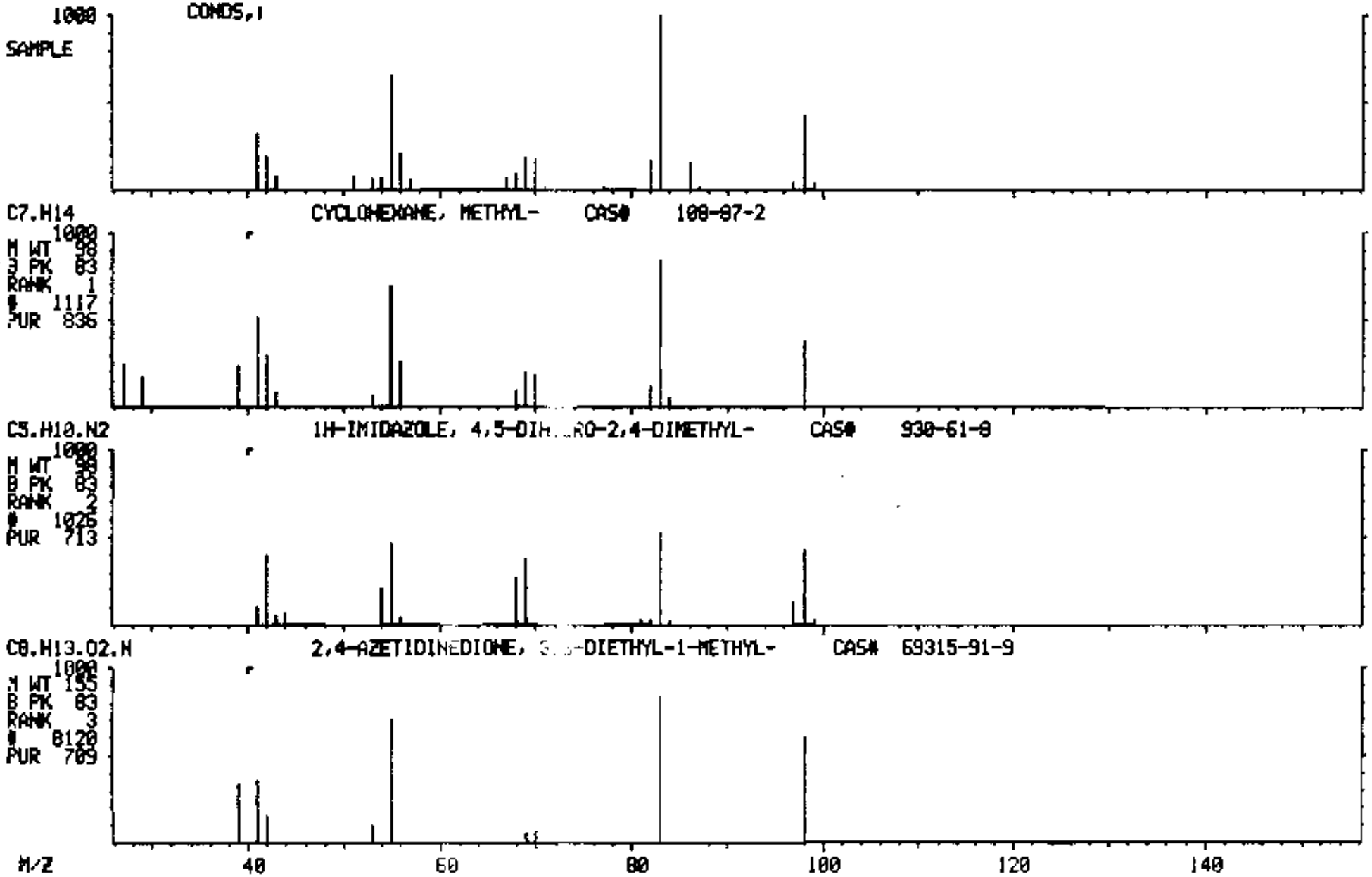
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
47	11:48		10.000			50.00		1.199	
48	11:53		50.000			50.00		0.149	
	13:06	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
	11:56		50.000			50.00		0.103	
51	11:58		10.000			50.00		0.502	
52	12:29		10.000			50.00		0.207	
53	12:41		10.000			50.00		0.228	
54	12:56		50.000			50.00		0.101	
55	13:08		10.000			50.00		1.230	
56	13:11		10.000			50.00		1.155	
57	13:59		10.000			50.00		1.482	
58	14:48		10.000			50.00		0.988	
59	16:40	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:05	0.99	50.000	0.02	22.22	50.00	0.014	0.031	0.44
61	15:06		10.000			50.00		2.198	
62	16:03		10.000			50.00		1.109	
63	16:43		20.000			50.00		0.201	
64	16:49		10.000			100.00		0.679	
65	16:51		10.000			50.00		1.641	
66	16:49		10.000			100.00		0.679	
67	19:09	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	17:50		10.000			50.00		2.700	
69	18:41		10.000			100.00		1.173	
[illegible]	[illegible]		[illegible]			[illegible]		1.173	
71	19:25		10.000			50.00		1.141	
72	22:53		10.000			50.00		1.241	
73	22:59		10.000			50.00		1.009	
74	23:55		10.000			50.00		1.064	
	5:25	0.99	0.742	1.05	26.53	50.00	0.752	1.418	0.53
	6:32	0.99	0.948	1.00	19.38	50.00	0.752	1.939	0.39
77	7:40	0.99	0.875	1.02	21.05	50.00	0.191	0.455	0.42
78	10:07	0.99	0.906	1.01	26.20	50.00	0.693	1.322	0.52
79	12:10	0.99	1.118	0.98	32.68	50.00	0.055	0.084	0.65
80	15:19	0.99	0.907	1.01	26.53	50.00	0.633	1.193	0.53
81	15:05	0.99	10.000	0.09	29.29	50.00	0.946	1.870	0.51
82	10:16		10.000			50.00		0.240	

COMPUCHEM LABS

MID LIBRARY SEARCH
11/16/85 17:51:00 + 3:15
SAMPLE: 1.0UL CC#66783 (11-9-85) CASE#URS EPA#BLANK-1
CONDS,1

DATA: GH066783A16 # 216
ENHANCED (100 2N BT)

BASE M/Z: 83
RIC: 43583.



CASE#: URS DUE DATE: 12/6/85

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 66783

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SAS: EPA#: Blank #1

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 11/9/85
DFTPP Filename RH85116A1C Disk (2780)
Standard Filename HI85116A1C Disk ( )
Sample Filename GH66783A1C Disk ( )

ANALYST(S): Injection [illegible] Work-up [illegible]644

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS
ED,IF,LA,DI,CO,RH,DW,DA

Extraneous Peak Search Results:
# of Peaks Found: 1

Quality Assurance Notice(s):
Notices Required

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

COMMENTS: 1K203 11-7

GC/MS Review JR Date 11/18/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): 644-816

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date /

11/18/85 11/18/85 EPAWATER

COMPUCHEM # 066783 FILE: GH066783A16 COMPOUND LIST 142 PAGE 1
SEMI-VOLATILE - LIQUID

..	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	455	124000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	20.
610	94		PHENOL (Q1#3) <108-95-2>				BDL	20.
473	93		ANILINE (Q1#4) <62-53-3>				BDL	20.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20.
601	128		2-CHLOROPHENOL (Q1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	20.
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	20.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20.
436	117		HEXACHLORDETHANE (Q1#15) <6				BDL	20.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20.
460	136	I	DS-NAPHTHALENE (IS#2)	567	419000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20
606	137		2-NITROPHENOL (Q2#3) <8				BDL	<
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	<
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20.
	180		1,2,4-TRICHLORDBENZENE (Q2#				BDL	20.
467	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20.
475	127		4-CHLORDANILINE (Q2#10) <10				BDL	20.
434	225		HEXACHLORDBUTADIENE (Q2#11)				BDL	20.
600	107		P-CHLORO-M-CRESOL (Q2#12) <				BDL	20.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	728	181000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	20.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (Q3#10) <83-32				BDL	20.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	100.
607	139		4-NITROPHENOL (Q3#12) <100-				BDL	100.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (Q3#14)				BDL	20.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (Q3#19) <100				BDL	100.
477	188	I	D10-PHENANTHRENE (IS#4)	863	209000.	40.0		
	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (Q4#6) <8				BDL	100.

P	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTMRENE (G4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20.
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20.
459	240	I	D12-CHRYSENE (IS#5)	1107	85600.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>				BDL	100.
445	202		PYRENE (G5#3) <129-00-0>				BDL	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1282	75200.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			25.5	51. %	
612	99	S	D5-PHENOL (SS#2)			20.5	41. %	
447	82	S	D5-NITROBENZENE (SS#3)			24.2	97. %	
1	172	S	2-FLUOROBIPHENYL (SS#4)			26.6	106. %	
J	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			34.4	69. %	
496	244	S	D14-TERPHENYL (SS#6)			27.2	109. %	
471	212	S	D10-PYRENE			28.0	112. %	
456	216		1,2,3,4 TETRACHLOROBENZENE				BDL	20.
CHECKSUMS:								
6593.	2206			5002	1093800.	426.4	585.	

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	25.5	50.0	51.	23-121	X	
76	612	D5-PHENOL (SS#2)	20.5	50.0	41.	15-103	X	
77	447	D5-NITROBENZENE (SS#3)	24.2	25.0	97.	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	26.6	25.0	106.	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	34.4	50.0	69.	10-130	X	
80	496	D14-TERPHENYL (SS#6)	27.2	25.0	109.	33-128	X	
81	471	D10-PYRENE	28.0	25.0	112.	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1000.\text{ML}}{1000.\text{ML}} \times \frac{1.0}{1} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{500\ \text{UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{500\ \text{UL}}{500\ \text{UL}} \times \frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1.0}{1} \times 2 = 2.000$$

(4)

EXTRACTION WORKSHEET

Semi Volatiles/Miscellaneous

ASSIGNED TO Andrew, Matt, Kenny (QL MRF KH)

DATE ASSIGNED 11-9-87

PAGE _____ OF _____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
66509	-SC	USA	N/A	B		500 ml		0.5	0.5		13	1	11-9	0.25 ml of surrogate & spike used, concentrated down to 0.5 ml; diluted up to 1000 ml with dist. H_2O.
66510		USA		SS	66273	500 ml		0.5	0.5		13	1	11-9	
66511		USA		SS	66513	500 ml		0.5	0.5		13	1	11-9	
66513		USA				1000 ml		1.0	1.0		13	1	11-9	
66515						1000 ml		1.0	1.0		13	1	11-9	
66517						1000 ml		1.0	1.0		13	1	11-9	
66521						1000 ml		1.0	1.0		13	1	11-9	
66783				B'		1000 ml		1.0	1.0		13	1	11-9	
66784				B''		1000 ml		1.0	1.0		13	1	11-9	

		S-Vol	Acid	B/N	Pest.	PCB	Other
SURROGATE	NO	353					
	AMT.	0.5 ml					
	LOT	15996					
SPIKE	NO.		3012	2021			
	AMT.		0.250 ml	0.250 ml			
	LOT		16021	15998			

MANUAL COUNTER 272 / 652

FINAL VOLUME VERIFIED MRF

SUPERVISOR REVIEWED MS. MRF

EXTRACTS RECEIVED BY PM 11/10

~~10 ml to 1.0 ml~~

Nº 7629

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
52257-E MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 65501
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS
SC Report No: _____
Contract No: PLATINUM
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 11-12-85
Date analyzed: 11-12-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	1.6	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	17.	B	71-43-2	Benzene	5.0	U
75-15-	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	4.0	J	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/ probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

P. O. Box 818, Alexandria Virginia 22313 703/557-2490

52237-EMS

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE	VOA	—	ug/l
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
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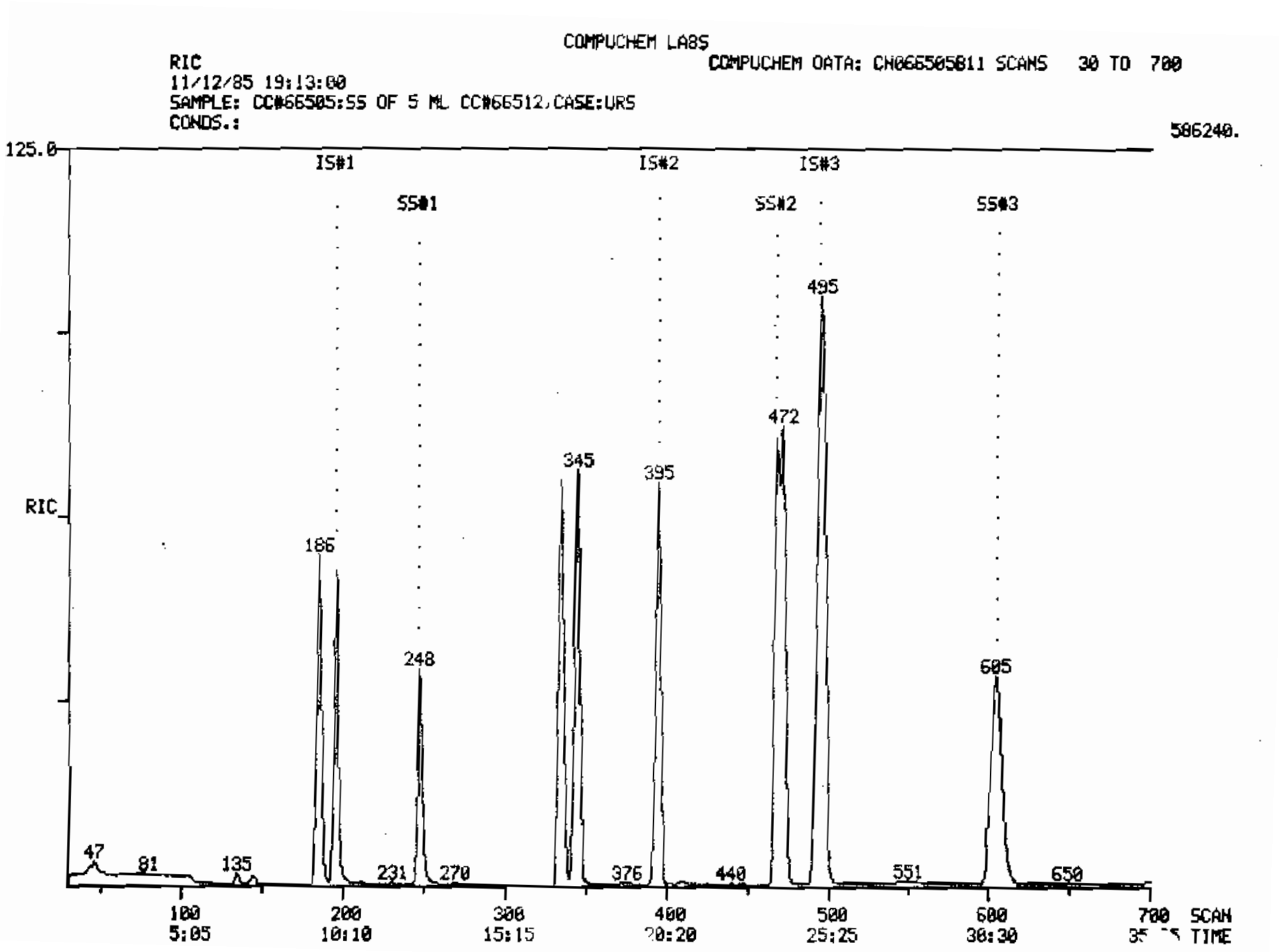
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN066505B11 SCANS 30 TO 700
11/12/85 19:13:00
SAMPLE: CC#66505:SS OF 5 ML CC#66512,CASE:URS
CONDS.:
586240.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
495
472
345
395
186
248
605
RIC
47
81
135
231
270
376
440
551
650
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700 SCAN
TIME

Internal Standard Area Monitor

Method: E237 Filename: CN066505B11 Date: 11/12/85
Shift Std: CS851112B11 Time: 19:13

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (I6)	107989.	110349.	-1.	Pass
*248 1,4 DIFLUOROBENZENE (I5)	430090.	439779.	-1.	Pass
*270 D5-CHLOROBENZENE (I5)	386948.	394940.	-1.	Pass

QUANTITATION REPORT FILE: CN066505B11

DATA: CN066505B11.TI
11/12/85 19:13:00
SAMPLE: CC#66505:SS OF 5 ML CC#66512,CASE:URS
CONDS.:
SUBMITTED BY: 11 ANALYST: 890

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P-XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:38	1	1.000	A BB	107990.	50.000 UG/L	6.68
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	135	6:52	1	0.689	A BB	5912.	1.648 UG/L	0.29
7	43	144	7:19	1	0.735	A BB	16449.	17.018 UG/L	2.95
8	76	NOT FOUND							
9	96	186	9:27	1	0.949	A BV	159588.	50.767 UG/L	8.81
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	395	20:05	14	1.000	A BB	430091.	50.000 UG/L	8.68
15	72	247	12:33	14	0.625	A BB	2213.	6.627 UG/L	1.15
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	335	17:02	14	0.848	A BV	178638.	48.057 UG/L	8.34
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	345	17:32	14	0.873	A BV	520240.	53.617 UG/L	9.30
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	494	25:07	29	1.000	A BB	386949.	50.000 UG/L	8.68
30	43	411	20:54	29	0.832	A*BB	7424.	1.941 UG/L	0.34
31	43	441	22:25	29	0.893	A*BV	3784.	1.508 UG/L	0.26
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	472	24:00	29	0.955	A BB	288539.	51.195 UG/L	8.88
35	112	496	25:13	29	1.004	A BB	369474.	48.932 UG/L	8.49
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	248	12:36	1	1.265	A BB	212442.	47.451 UG/L	8.23
41	95	605	30:45	29	1.225	A BB	323097.	49.340 UG/L	8.56
42	98	468	23:47	1	2.388	A BB	434702.	48.175 UG/L	8.36

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:59		10.000			50.00		2.249	
3	3:00		10.000			50.00		2.120	
4	3:46		10.000			50.00		2.336	
5	4:44		10.000			50.00		1.082	
6	6:49	1.01	5.000	0.14	1.65	50.00	0.055	1.661	0.03
7	7:19	1.00	10.000	0.07	17.02	50.00	0.152	0.448	0.34
8	8:14		5.000			50.00		5.047	
9	9:27	1.00	5.000	0.19	50.77	50.00	1.478	1.455	1.02
10	10:44		5.000			50.00		3.070	
11	11:23		5.000			50.00		1.457	
12	12:03		5.000			50.00		3.504	
13	12:46		5.000			50.00		2.328	
14	20:05	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33	1.00	10.000	0.06	6.63	50.00	0.005	0.039	0.13
16	14:02		5.000			50.00		0.535	
17	14:26		5.000			50.00		0.513	
18	14:26		10.000			50.00		0.938	
19	14:57		5.000			50.00		0.809	
20	16:19		5.000			50.00		0.524	
21	16:31		5.000			50.00		0.267	
22	17:02	1.00	5.000	0.17	48.06	50.00	0.415	0.432	0.96
23	17:47		5.000			50.00		0.603	
24	17:51		5.000			50.00		0.423	
25	17:32	1.00	5.000	0.17	53.62	50.00	1.210	1.128	1.07
26	17:51		5.000			50.00		0.834	
27	18:52		10.000			50.00		0.306	
28	20:29		5.000			50.00		0.360	
29	25:07	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:54	1.00	10.000	0.08	1.94	50.00	0.019	0.494	0.04
31	22:25	1.00	10.000	0.09	1.51	50.00	0.010	0.324	0.03
32	22:43		5.000			50.00		0.422	
33	22:46		5.000			50.00		0.656	
34	24:00	1.00	5.000	0.19	51.20	50.00	0.746	0.728	1.02
35	25:16	1.00	5.000	0.20	48.93	50.00	0.955	0.976	0.98
36	27:36		5.000			50.00		0.443	
37	32:35		5.000			50.00		0.985	
38	32:53		5.000			50.00		0.567	
39	34:13		5.000			100.00		0.536	
40	12:36	1.00	10.000	0.13	47.45	50.00	1.967	2.073	0.95
41	30:48	1.00	10.000	0.12	49.34	50.00	0.835	0.846	0.99
42	23:47	1.00	10.000	0.24	48.17	50.00	4.025	4.178	0.96

LAB INSTRUCTIONS:

CASE#: URS DUE DATE: 12/06/85

VOA J1[ ] J3[ ] D1[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 66505
J2[ ] J4[ ] D2[ ] (:1)

QC

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAMPLE ID: SS 291/424

GC/MS ANALYSIS

Amount Purged: [X] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename [illegible] Disk(15)
Blank Filename [illegible] Disk ( )
Standard Filename [illegible] Disk ( )
Sample Filename [illegible] Disk ( )

ANALYST(S): Injection [illegible] Work-up [illegible]

GC/MS REVIEW

CONDITION CODE: [ ] Entry Codes DW,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC FQ,SM

Disposition: [/] Complete

Extraneous Peak Search Results
# of Peaks Found: 0

[ ] Reinject Neat

Quality Assurance Notice(s).
Notices Required 0

[ ] Dilute (:1)

COMMENTS:

GC/MS Review [illegible] Date 11/15/85 Auditor [illegible] Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CLP06605058[illegible]/

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC386 (11/84)

ENTERED 11/13/85

11/13/80

Volatile - Medium or Low Level Liquid

mp #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	196	105000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE			1.6	J	5.
252	43		ACETONE (2-PROPANONE)			17.0	17.	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE			50.8	51.	5
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	395	430000.	50.0		
253	72		2-BUTANONE			6.6 ~~6.6~~	~~J~~ J	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5
217	63		1,2-DICHLOROPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE			48.0	48.	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
28	97		1,1,2-TRICHLOROETHANE				BDL	5.
203	78		BENZENE			53.6	54.	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	D5-CHLOROBENZENE (IS)	494	357000.	50.0		
255	43		2-HEXANONE			~~1.9~~	~~J~~BDL	10.
256	43		4-METHYL-2-PENTANONE			~~1.5~~	~~J~~BDL	10.
224	164		TETRACHLOROETHENE				BDL	5
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	
225	92		TOLUENE			51.2	51.	
207	112		CHLOROBENZENE			48.9	49.	
219	106		ETHYLBENZENE				BDL	
251	104		STYRENE				BDL	
240	106		M-XYLENE				BDL	
271	106		O,P-XYLENE				BDL	
258	65	s	D4-1,2-DICHLOROETHANE			47.4	95. %	
247	95	s	BROMOFLUOROBENZENE			49.3	99. %	
233	98	s	D8-TOLUENE			48.2	96. %	
Checksums:								
3808.	1410			1085	925000.	576.0	560.	

11-13-87

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	238	D4-1,2-DICHLOROETHANE	47.4	50.0	95.	77-120	X	
41	247	BROMOFLUOROBENZENE	49.3	50.0	99.	85-121	X	
42	233	D8-TOLUENE	48.2	50.0	96.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	X	

Correction Factor Calculation:

$$\frac{5000\ ul}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000\ ul}{5000.\ (ul)} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

BS 11-3-15

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
52237-E MS

Organics Analysis Data Sheet
(Page 2)

Laboratory Name: CompuChem

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 11-09-85
Date analyzed: 11-17-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	6.0	J	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER SS 273/386

COMPUCHEM FILE GH066510A16

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

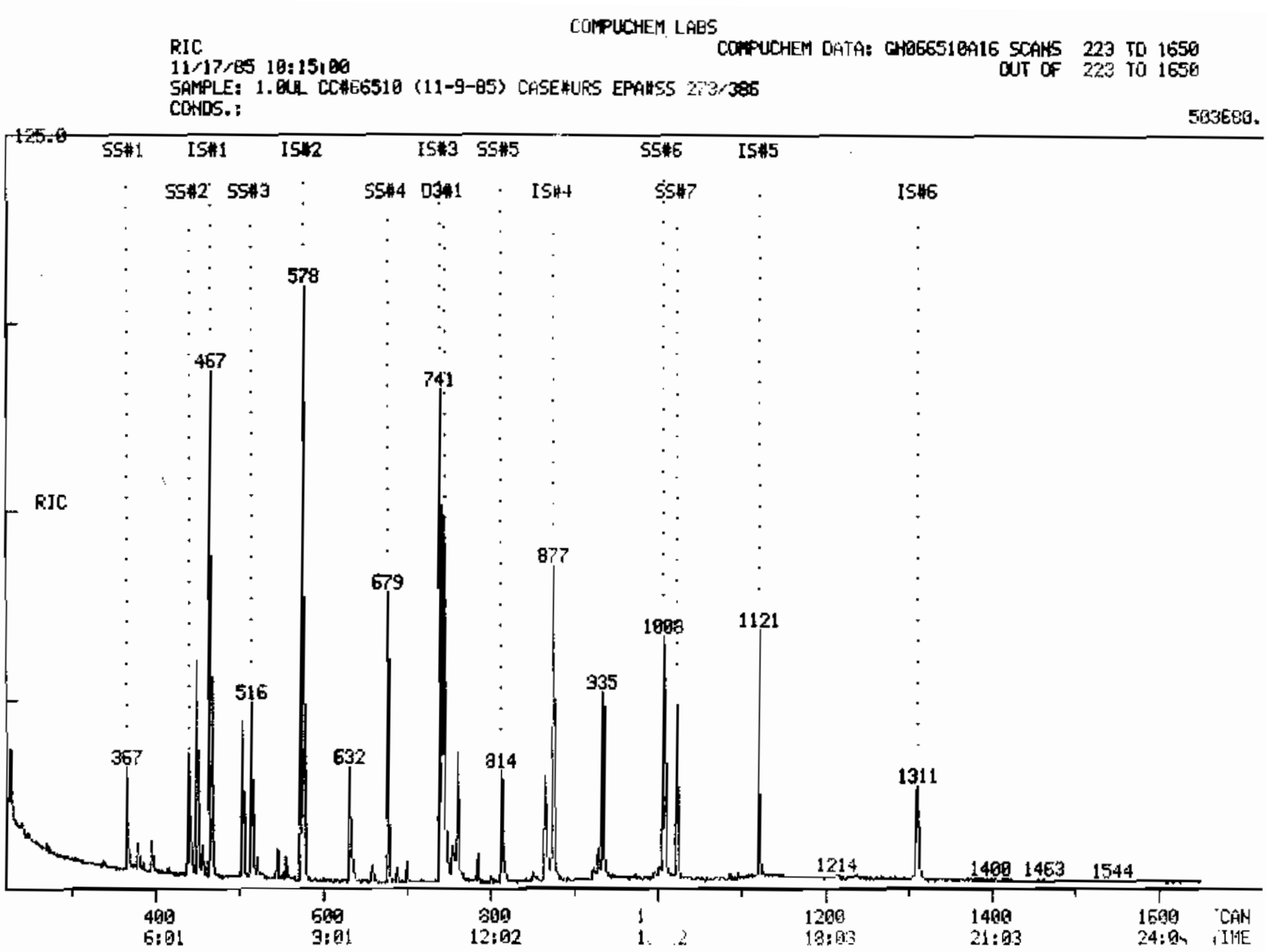
	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-87-2	Alkane: CYCLOHEXANE, METHYL-	SEMI3	230	11.	J B
2	95-57-8	PP PHENOL, 2-CHLORO-	SEMI3	452	27.	J
3	621-64-7	PP 1-PROPANAMINE, N-NITROSO-N-PROPYL=	SEMI3	505	19.	J
4	100-02-7	PP PHENOL, 4-NITRO-	SEMI3	755	15.	J

2.000 40.00

SPECTROSCOPIST _____

DATE 11/17/15

FORM1, Pg. 8


COMPUCHEM LABS
RIC
11/17/85 10:15:00
COMPUCHEM DATA: GM066510A16 SCANS 223 TO 1650
OUT OF 223 TO 1650
SAMPLE: 1.0UL CC#66510 (11-9-85) CASE#URS EPA#SS 273/386
CONDS.:
503680.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
RIC
578
467
741
877
679
1008
1121
935
516
367
632
814
1311
1214
1400
1463
1544
400
6:01
600
9:01
800
12:02
1200
18:03
1400
21:03
1600
24:0
SCAN
TIME

METHOD: SEMI3 FILENAME: GH066510A16 DATE: 11/17/85
SHIFT STD: HH851117A16 TIME: 10:15

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	84963.	71447.	19.	PASS
*460 D8-NAPHTHALENE (IS#2)	288823.	228767.	26.	PASS
*495 D10-ACENAPHTHENE (IS#3)	120851.	97927.	23.	PASS
*467 D10-PHENANTHRENE (IS#4)	137203.	118183.	16.	PASS
*459 D12-CHRYSENE (IS#5)	70523.	61439.	15.	PASS
*497 D12-PERYLENE (IS#6)	61487.	58955.	4.	PASS

11/17/85

DATA: GH066510A16.TI
11/17/85 10:15:00
SAMPLE: 1.0UL CC#66510 (11-9-85) CASE#URS EPA#SS 273/386
MDS.:
SUBMITTED BY: 16 ANALYST: 644

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (I8#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (88#6)
81	#471 D10-PYRENE
82	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	466	7:00	1	1.000	A BV	84964.	40.000 NG	5.43
2	42	NOT FOUND							
3	94	442	6:39	1	0.948	A BV	41396.	9.996 NG	1.36
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	452	6:48	1	0.970	A BV	85164.	27.945 NG	3.80
7	146	468	7:02	1	1.004	A BV	82456.	25.104 NG	3.41
8	146	468	7:02	1	1.004	A BV	82456.	24.103 NG	3.27
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	100	NOT FOUND							
14	70	506	7:37	1	1.086	A BV	53632.	22.385 NG	3.04
15	117	NOT FOUND							
16	77	NOT FOUND							
	136	578	8:41	17	1.000	A BV	288824.	40.000 NG	5.43
	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	546	8:13	17	0.945	A BB	4756.	3.237	NG	0.44
20	122	NOT FOUND								
	122	NOT FOUND								
	93	NOT FOUND								
23	162	NOT FOUND								
24	180	575	8:39	17	0.995	A BB	53572.	22.423	NG	3.05
25	128	NOT FOUND								
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	632	9:30	17	1.093	A BV	56544.	24.729	NG	3.36
29	142	NOT FOUND								
30	164	741	11:09	30	1.000	A BB	120852.	40.000	NG	5.43
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	744	11:11	30	1.004	A BB	93176.	24.656	NG	3.35
40	184	NOT FOUND								
41	139	NOT FOUND					17012.	~~6.040~~ 22.1		
42	166	NOT FOUND								
43	89	762	11:27	30	1.028	A BV	22928.	19.087	NG	2.59
44	165	NOT FOUND								
45	149	786	11:49	30	1.061	A BB	13672.	3.341	NG	0.45
46	204	NOT FOUND								
	166	NOT FOUND								
	138	NOT FOUND								
49	188	876	13:10	49	1.000	A VV	137204.	40.000	NG	5.43
50	198	NOT FOUND								
51	169	801	12:03	49	0.914	A BB	2804.	1.494	NG	0.20
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	865	10:00	49	0.987	A BV	16528.	42.241	NG	5.74
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	935	14:04	49	1.067	A*VV	148852.	22.342	NG	3.03
58	202	NOT FOUND								
59	240	1121	16:51	59	1.000	A BV	70524.	40.000	NG	5.43
60	184	1008	15:09	59	0.899	A BB	1372.	28.405	NG	3.86
61	202	1009	15:10	59	0.900	A VV	92784.	25.209	NG	3.42
62	149	NOT FOUND								
63	252	NOT FOUND								
64	228	NOT FOUND								
65	149	NOT FOUND								
66	228	NOT FOUND								
67	264	1311	19:43	67	1.000	A BV	61488.	40.000	NG	5.43
68	149	NOT FOUND								
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
	278	NOT FOUND								
	276	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
75	112	367	5:31	1	0.788	A BV	43168.	14.597	NG	1.98
76	99	441	6:38	1	0.946	A BV	51028.	13.357	NG	1.81
77	82	516	7:46	17	0.893	A BV	71436.	21.485	NG	2.92
3	172	679	10:13	30	0.916	A BV	101280.	25.544	NG	3.47
/9	141	814	12:14	30	1.099	A BB	10204.	41.326	NG	5.61
80	244	1025	15:25	59	0.914	A VV	53096.	26.880	NG	3.65
81	212	1008	15:09	59	0.899	A VV	78868.	26.336	NG	3.58
82	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:03	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48		10.000			50.00		0.652	
3	6:41	1.00	10.000	0.09	10.00	50.00	0.390	1.950	0.20
4	6:41		10.000			50.00		1.142	
5	6:46		10.000			50.00		1.776	
6	6:50	1.00	10.000	0.10	27.95	50.00	0.802	1.435	0.56
7	7:00	1.00	10.000	0.10	25.10	50.00	0.776	1.546	0.50
8	7:04	1.00	10.000	0.10	24.10	50.00	0.776	1.611	0.48
9	7:18		10.000			50.00		0.259	
10	7:18		10.000			50.00		1.477	
11	7:26		10.000			50.00		1.512	
12	7:28		10.000			50.00		1.777	
13	7:37		10.000			50.00		1.456	
14	7:38	1.00	10.000	0.11	22.39	50.00	0.505	1.128	0.45
15	7:43		10.000			50.00		0.695	
16	7:49		10.000			50.00		1.486	
17	8:44	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:08		10.000			50.00		0.854	
19	8:14	1.00	3.000	0.31	3.24	50.00	0.013	0.203	0.06
	8:19		6.000			50.00		0.321	
21	8:29		50.000			50.00		0.216	
22	8:26		10.000			50.00		0.464	
23	8:34		10.000			50.00		0.274	
24	8:41	1.00	10.000	0.10	22.42	50.00	0.148	0.331	0.45
25	8:45		10.000			50.00		1.110	
26	8:52		10.000			50.00		0.146	
27	9:01		10.000			50.00		0.165	
28	9:32	1.00	10.000	0.11	24.73	50.00	0.157	0.317	0.49
29	9:42		10.000			50.00		0.618	
30	11:10	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:02		10.000			50.00		0.296	
32	10:08		10.000			100.00		0.362	
33	10:08		50.000			100.00		0.362	
34	10:23		10.000			50.00		1.308	
35	10:33		50.000			50.00		0.466	
36	10:52		10.000			50.00		1.329	
37	10:58		10.000			50.00		1.922	
38	11:09		50.000			50.00		0.097	
39	11:13	1.00	10.000	0.10	24.66	50.00	0.617	1.251	0.49
40	11:17		50.000			50.00		0.131	
41	11:27		50.000			50.00		0.828	0.255
42	11:27		10.000			50.00		1.668	
43	11:29	1.00	10.000	0.10	19.09	50.00	0.152	0.398	0.38
44	10:57		10.000			50.00		0.285	
45	11:51	1.00	10.000	0.11	3.34	50.00	0.091	1.354	0.07
46	11:55		10.000			50.00		0.475	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
47	11:55		10.000			50.00		1.1E4	
48	12:00		50.000			50.00		0.153	
9	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:03		50.000			50.00		0.107	
51	12:05	1.00	10.000	0.09	1.49	50.00	0.016	0.547	0.03
52	12:35		10.000			50.00		0.193	
53	12:48		10.000			50.00		0.222	
54	13:03	1.00	50.000	0.02	42.24	50.00	0.096	0.114	0.84
55	13:15		10.000			50.00		1.258	
56	13:18		10.000			50.00		1.224	
57	14:06	1.00	10.000	0.11	22.34	50.00	0.868	1.942	0.45
58	14:54		10.000			50.00		1.040	
59	16:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:11	1.00	50.000	0.02	28.40	50.00	0.016	0.027	0.57
61	15:13	1.00	10.000	0.09	25.21	50.00	1.053	2.088	0.50
62	16:09		10.000			50.00		1.284	
63	16:50		20.000			50.00		0.192	
64	16:52		10.000			50.00		1.343	
65	16:59		10.000			50.00		3.139	
66	16:56		10.000			50.00		1.283	
67	19:47	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:02		10.000			50.00		2.504	
69	18:54		10.000			100.00		1.144	
70	18:54		10.000			100.00		1.144	
71	19:36		10.000			50.00		1.150	
72	23:22		10.000			50.00		1.210	
73	23:28		10.000			50.00		1.051	
74	24:28		10.000			50.00		1.061	
5	5:33	0.99	0.742	1.06	14.60	50.00	0.406	1.392	0.29
6	6:41	0.99	0.948	1.00	13.36	50.00	0.480	1.799	0.27
77	7:47	1.00	0.875	1.02	21.48	50.00	0.198	0.460	0.43
78	10:14	1.00	0.906	1.01	25.54	50.00	0.670	1.312	0.51
79	12:17	1.00	1.118	0.98	41.33	50.00	0.068	0.082	0.83
80	15:26	1.00	0.907	1.01	26.88	50.00	0.602	1.120	0.54
81	15:11	1.00	10.000	0.09	26.34	50.00	0.895	1.699	0.53
82	10:23		10.000			50.00		0.231	

LAB INSTRUCTIONS:

CASE#: URS DUE DATE: 12/06/85

SEMI-VOLATILE
C/MS WORKSHEET COMPUCHEM#: 66510

J1[ ] R1[ ] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID

QC

Sample Prep Code---056
Instrument Code----254
Compound List------142
Surrogate Std------392
Internal Std-------03S

SAMPLE ID/EPA#: SS 27386

GC/MS ANALYSIS

Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5.0 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 11/9/85
DFTPP Filename DH85111716A16 Disk (2700)
Standard Filename HH85111716A16 Disk ( )
Sample Filename GH066516A16 Disk ( )

ANALYST(S): Injection 644 Work-up 644

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS
ED,IF,LA,DI,CO,RN,DW,DA

Disposition: [✓] Complete

Extraneous Peak Search Results:

# of Peaks Found: 1 PK203 11-17

[ ] Reinjection required

[ ] Reextraction required

# of Hits: 15

[ ] Dilute (:1)

# of Surrogate Outliers: 0

[ ] Reinject Neat

Quality Assurance Notice(s):

[ ] Send to QA

Notices Required 1

GC/MS Review [illegible] Date 11/17/85 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): GH--- A16 /

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

AC383 (11/84)

COMPUCHEM # 066510 FILE: CH066510A16 COMPOUND LIST 142 PAGE
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	466	85000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	20
610	94		PHENOL (Q1#3) <108-95-2>			10.0	20.	20
473	93		ANILINE (Q1#4) <62-53-3>				BDL	20.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20.
601	128		2-CHLOROPHENOL (Q1#6) <95-5			27.9	56.	20
421	146		1,3-DICHLOROBENZENE (Q1#7)			~~25.1~~ 44	~~50.~~ 88	20
422	146		1,4-DICHLOROBENZENE (Q1#8)			24.1	48.	20
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20
442	70		N-NITROSO-DI-N-PROPYLAMINE			22.4	45.	20.
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	20.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20
460	136	I	D8-NAPHTHALENE (IS#2)	572	289000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20
606	139		2-NITROPHENOL (Q2#3) <88-75			3.2	6.	20
607	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	41.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	10
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20
446	180		1,2,4-TRICHLOROBENZENE (Q2#			22.4	45.	20
639	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	2
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	2
608	107		P-CHLORO-M-CRESOL (Q2#12) <			24.7	49.	20
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	22
495	164	I	D10-ACENAPHTHENE (IS#3)	741	121000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	21
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100
613	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	21
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100
401	153		ACENAPHTHENE (Q3#10) <83-32			24.6	49.	20
605	154		2,4-DINITROPHENOL (Q3#11) <			22.1	BDL 44	100
607	139		4-NITROPHENOL (Q3#12) <100-			~~24.6~~	~~BDL~~ 44	100
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20
427	89		2,4-DINITROTOLUENE (Q3#14)			19.1	38.	20.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20
424	149		DIETHYL PHTHALATE (Q3#16) <			3.3	J	20
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (Q3#19) <100				BDL	100
467	188	I	D10-PHENANTHRENE (IS#4)	87	97000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
443	169		N-NITROSODIPHENYLAMINE (Q4#			1.5	J	20.
434	248		4-BROMOPHENYL PHENYL ETHER				BDL	20
433	284		HEXACHLOROBENZENE (Q4#2) <1				BDL	20
609	266		PENTACHLOROPHENOL (Q4#3) <8			42.2	J	100

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L
444	178		PHENANTHRENE (Q4#7) <85-01-				BDL	2
403	178		ANTHRACENE (Q4#8) <120-12-7				BDL	2
426	149		DI-N-BUTYL PHTHALATE (Q4#9)			22.3	45.	2
431	202		FLUORANTHENE (Q4#10) <206-4				BDL	2
459	240	I	D12-CHRYSENE (IS#5)	1121	70500.	40.0		
404	184		BENZIDINE (Q5#2) <92-87-5>			~~28.4~~	BDL	10
445	202		PYRENE (Q5#3) <129-00-0>			25.2	50.	2
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	2
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	4
405	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	2
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	2
416	228		CHRYSENE (Q5#8) <218-01-9>				BDL	1
497	264	I	D12-PERYLENE (IS#6)	1311	61500.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	2
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	2
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	2
406	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	2
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	2
417	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	2
418	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	2
410	112	S	2-FLUOROPHENOL (SS#1)			14.6	29 %	
612	99	S	D5-PHENOL (SS#2)			13.4	27. %	
447	82	S	D5-NITROBENZENE (SS#3)			21.5	86. %	
448	172	S	2-FLUOROBIPHENYL (SS#4)			25.5	102. %	
88	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			41.3	83 %	
456	244	S	D14-TERPHENYL (SS#6)			26.9	108 %	
471	212	S	D10-PYRENE			26.3	105. %	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	
CHECKSUMS:								
14330.	4577			5093	764000.	735.9	1041	

BDL
14-Nov-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
75	619	2-FLUOROPHENOL (SS#1)	14.5	50.0	29.	23-121	X
76	612	D5-PHENOL (SS#2)	13.4	50.0	27.	15-103	X
77	447	D5-NITROBENZENE (SS#3)	21.5	25.0	86.	41-126	X
78	448	2-FLUOROBIPHENYL (SS#4)	26.5	25.0	102.	44-119	X
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	41.9	50.0	83.	10-130	X
80	496	D14-TERPHENYL (SS#6)	24.9	25.0	108.	33-128	X
81	471	D10-PYRENE	24.3	25.0	105.	33-128*	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	---	---

CORRECTION FACTOR CALCULATION:

FINAL EXTRACT VOLUME (ML) / 1.0 ML FOR ACID & 1.0ML FOR BN X 1000 / VOL SAMPLE EXTRACTED (ML) X DILUTION FACTOR X 2 =

0.5ML / 1.0ML & 1.0ML X 1000 ML / 500 ML X 1.0 X 2 = 2.000

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

500 UL / AMOUNT SURROGATE ADDED (UL) X FINAL EXTRACT VOL (ML) / 1.0ML FOR ACID & 1.0ML FOR BN X DILUTION FACTOR X 2 =

500 UL / 250 UL X 0.5ML / 1.0ML & 1.0ML X 1.0 X 2 = 2.000

QUALITY ASSURANCE NOTICE
sample #66510
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 230 _____ _____ _____ _____ _____

QAN10S
850218

(4)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

DJ MKF KBH

ASSIGNED TO: Andrew, Matt, Kenny

DATE ASSIGNED 11-9-89

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
66509	-SC	USA	N/A	BS		500 ml		0.5	0.5		13	1	11-9	0.25 ml of surrogate spike used. concentrated down to 0.5 ml; diluted up to 1.0 ml with dist. H2O.
66510		USA		SS	66073	500 ml		0.5	0.5		13	1	11-9	
66511		USA		SS	66513	500 ml		0.5	0.5		13	1	11-9	
66513		USA				1000 ml		1.0	1.0		13	1	11-9	
66515						1000 ml		1.0	1.0		13	1	11-9	
66517						1000 ml		1.0	1.0		13	1	11-9	
66521						1000 ml		1.0	1.0		13	1	11-9	
66783				BS		1000 ml		1.0	1.0		13	1	11-9	
66784	↓			BS		1000 ml		1.0	1.0		13	1	11-9	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	353					
	AMT.	0.5					
	LOT	15996					
SPIKE	NO.		3012	2021			
	AMT.		0.250 ml	0.250			
	LOT		14021	15918			

MANUAL COUNTER 272 / 652

FINAL VOLUME VERIFIED MKF

SUPERVISOR REVIEWED MS. MKF

EXTRACTS RECEIVED BY PM 11/10

~~[illegible]~~

№ 7629

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
5223J-E MSB

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 66506
Sample matrix: Liquid
Data Release
Authorized By: _____

Case: UR5
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received:

Volatile Compounds

Concentration: low
Date extracted/prepared: 11-12-85
Date analyzed: 11-12-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	1.8	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	15.	B	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

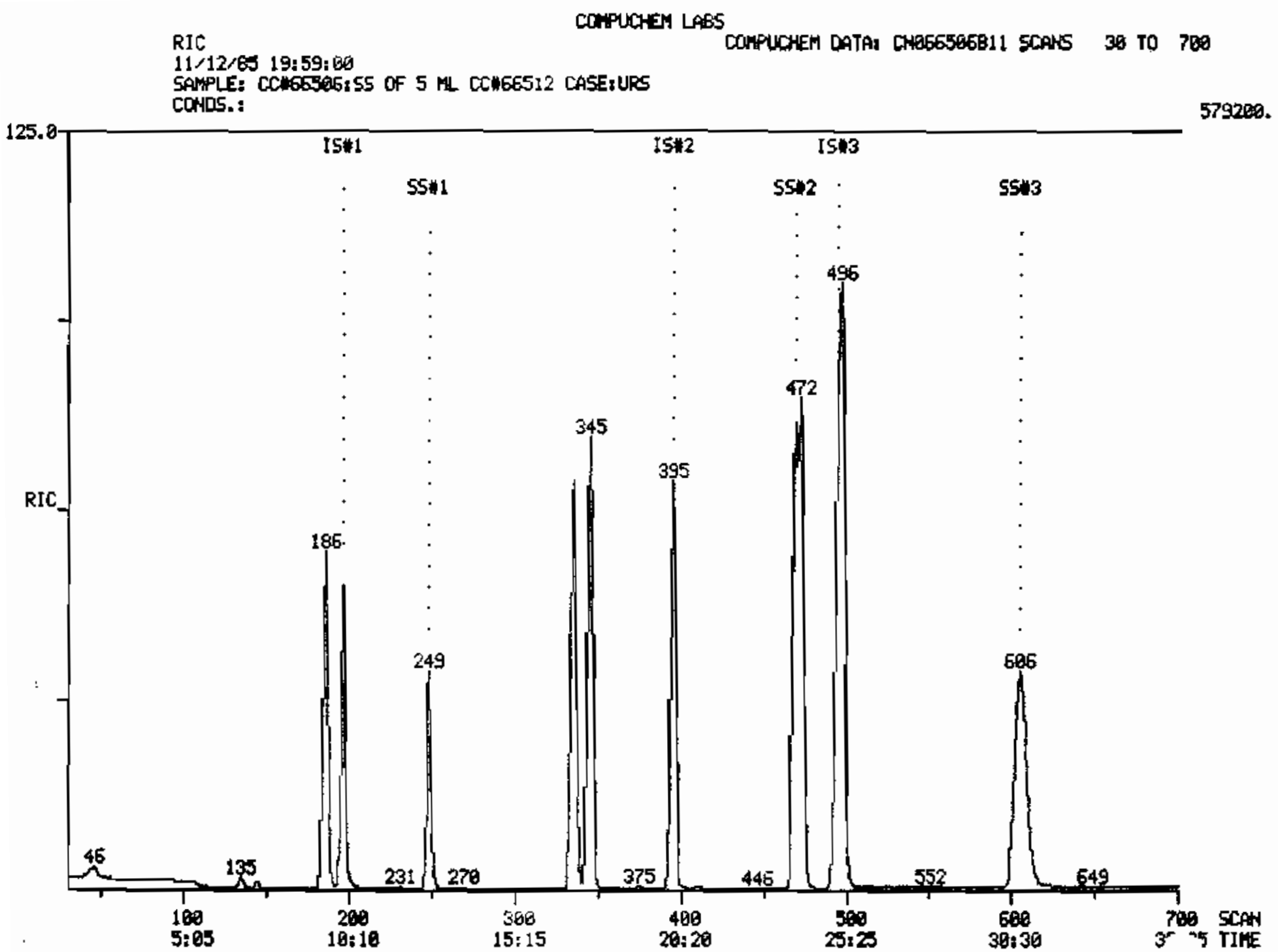
P. O. Box 818, Alexandria Virginia 22313 703-557-2490

Sample Number
52237-EMSD

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	NONE	VOA	—	ug/l
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN066506B11 SCANS 30 TO 700
11/12/65 19:59:00
SAMPLE: CC#66506:SS OF 5 ML CC#66512 CASE:URS
CONDS.:
579200.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
496
472
345
395
186
249
606
RIC
46
135
231
270
375
445
552
649
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700 SCAN
TIME

Internal Standard Area Monitor

Method: E237 Filename: CN066506B11 Date: 11/12/85
Shift Std: CS851112B11 Time: 19:59

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	103883.	110349.	-5.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	424975.	439779.	-2.	Pass
*270 D5-CHLOROBENZENE (IS)	374747.	394940.	-4.	Pass

QUANTITATION REPORT FILE: CN066506B11

DATA: CN066506B11.TI
11/12/85 19:59:00
AMPLE: CC#66506:SS OF 5 ML CC#66512 CASE:URS
CONDS.:
SUBMITTED BY: 11 ANALYST: 890

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUORDBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P-XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	196	9:58	1	1.000	A BB	103884.	50.000 UG/L	8.62
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	135	6:52	1	0.689	A BB	6203.	1.798 UG/L	0.31
7	43	144	7:19	1	0.735	A BB	13710.	14.745 UG/L	2.54
8	76	NOT FOUND							
9	96	186	9:27	1	0.949	A BB	158875.	52.538 UG/L	9.06
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	395	20:05	14	1.000	A BB	424975.	50.000 UG/L	8.62
15	72	248	12:36	14	0.628	A BB	1316.	3.988 UG/L	0.69
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	336	17:05	14	0.851	A BV	178755.	48.668 UG/L	8.37
23	129	NOT FOUND							
24	97	NOT FOUND							
25	70	345	17:32	14	0.873	A BB	523357.	54.587 UG/L	9.41
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	494	25:07	29	1.000	A BV	374748.	50.000 UG/L	8.62
30	43	411	20:54	29	0.832	A*BB	8195.	2.212 UG/L	0.38
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	472	24:00	29	0.955	A BB	289654.	53.066 UG/L	9.15
35	112	497	25:16	29	1.006	A BV	371653.	50.823 UG/L	8.76
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	249	12:39	1	1.270	A BB	205008.	47.601 UG/L	8.21
41	95	606	30:48	29	1.227	A BB	319296.	50.347 UG/L	8.68
42	98	469	23:50	1	2.393	A BB	430747.	49.623 UG/L	8.56

NO	RET(L)	RATIO	RRT(L)	RATID	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:59		10.000			50.00		2.249	
3	3:00		10.000			50.00		2.120	
4	3:46		10.000			50.00		2.336	
5	4:44		10.000			50.00		1.082	
6	6:49	1.01	5.000	0.14	1.80	50.00	0.060	1.661	0.04
7	7:19	1.00	10.000	0.07	14.74	50.00	0.132	0.448	0.29
8	8:14		5.000			50.00		5.047	
9	9:27	1.00	5.000	0.19	52.54	50.00	1.529	1.455	1.05
10	10:44		5.000			50.00		3.070	
11	11:23		5.000			50.00		1.457	
12	12:03		5.000			50.00		3.504	
13	12:46		5.000			50.00		2.328	
14	20:05	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

ND	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33	1.00	10.000	0.06	3.99	50.00	0.003	0.039	0.08
16	14:02		5.000			50.00		0.535	
17	14:26		5.000			50.00		0.513	
18	14:26		10.000			50.00		0.938	
19	14:57		5.000			50.00		0.809	
20	16:19		5.000			50.00		0.524	
21	16:31		5.000			50.00		0.267	
22	17:02	1.00	5.000	0.17	48.67	50.00	0.421	0.432	0.97
23	17:47		5.000			50.00		0.603	
24	17:51		5.000			50.00		0.423	
25	17:32	1.00	5.000	0.17	54.59	50.00	1.232	1.128	1.09
26	17:51		5.000			50.00		0.834	
27	18:52		10.000			50.00		0.306	
28	20:29		5.000			50.00		0.360	
29	23:07	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:54	1.00	10.000	0.08	2.21	50.00	0.022	0.494	0.04
31	22:25		10.000			50.00		0.324	
32	22:43		5.000			50.00		0.422	
33	22:46		5.000			50.00		0.656	
34	24:00	1.00	5.000	0.19	53.07	50.00	0.773	0.728	1.06
35	25:16	1.00	5.000	0.20	50.82	50.00	0.992	0.976	1.02
36	27:36		5.000			50.00		0.443	
37	32:35		5.000			50.00		0.985	
38	32:53		5.000			50.00		0.567	
39	34:13		5.000			100.00		0.536	
40	12:36	1.00	10.000	0.13	47.60	50.00	1.973	2.073	0.95
41	30:48	1.00	10.000	0.12	50.35	50.00	0.852	0.846	1.01
42	23:47	1.00	10.000	0.24	49.62	50.00	4.146	4.178	0.99

LAB INSTRUCTIONS:

CASE#: URS DUE DATE: 12/06/85

VOA
GC/MS WORKSHEET COMPUCHEM#: 66506

J1[ ] J3[ ] D1[ ] (:1)

J2[ ] J4[ ] D2[ ] (:1)

QC

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAMPLE ID: SS 29/424

GC/MS ANALYSIS

Amount Purged: [x] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename DBS0112A11 Disk(MS) CON=66506
Blank Filename CBS0112A11 Disk ( )
Standard Filename CSK5112B11 Disk ( )
Sample Filename CN66506B11 Disk ( )

ANALYST(S): Injection 810 Work-up 810

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FO,SM

Disposition: [x] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reinject Neat

Quality Assurance Notice(s):
Notices Required 0

[ ] Dilute (:1)

COMMENTS:

GC/MS Review MS Date 11/15/85 Auditor [illegible] Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): CN66506B11 /

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC386 (11/84)

ENTERED 11/13/85

received 11/13/85

Volatile - Medium or Low Level Liquid

Cmp #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	196	104000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINTL CHLORIDE				BDL	10.
209	64		CHLORDETHANE				BDL	10.
222	84		METHYLENE CHLORIDE			1.8	J	5.
252	43		ACETONE (2-PROPANONE)			14.7	15.	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE			52.5	52.	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLORDETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	395	429000.	50.0		
253	72		2-BUTANONE			~~4.0~~	J BDL	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLOROPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE			48.7	49.	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
28	97		1,1,2-TRICHLOROETHANE				BDL	5.
203	78		BENZENE			54.6	55.	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	D5-CHLOROBENZENE (IS)	494	375000.	50.0		
255	43		2-HEXANONE			~~2.2~~	BDL	10.
256	43		4-METHYL-2-PENTANONE				BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE			53.1	53.	5.
207	112		CHLOROBENZENE			50.8	51.	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P-XYLENE				BDL	5.
238	65	s	D4-1,2-DICHLOROETHANE			47.6	95. %	
247	95	s	BROMOFLUOROBENZENE			50.3	101. %	
233	98	s	D8-TOLUENE			49.6	99. %	
Checksums:								
3552.	1367			1085	904000.	579.9		570.

11-15-05

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	238	D4-1,2-DICHLOROETHANE	47.6	50.0	95.	77-120	X	
41	247	BROMOFLUOROBENZENE	50.3	50.0	101.	85-121	X	
42	233	D8-TOLUENE	49.6	50.0	99.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	X	

Correction Factor Calculation:

$$\frac{5000\ ul}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000\ ul}{5000.\ (ul)} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

11-13-87

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
52237-E MSD

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 11-09-85
Date analyzed: 11-17-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	7.0J		85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER 5S 273/386

COMPUCHEM FILE GH06651:1A16

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

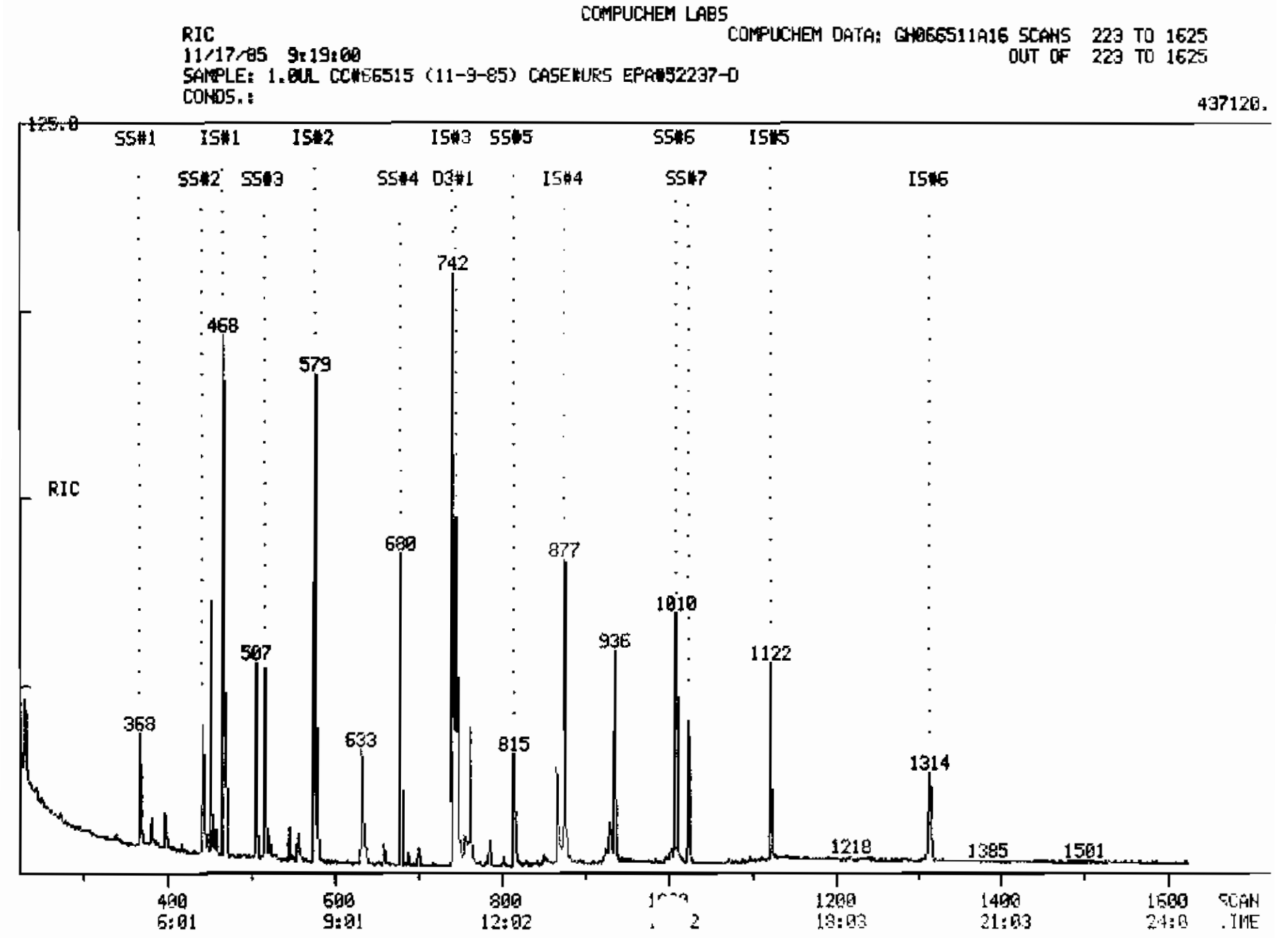
TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-87-2	Alkane CYCLOHEXANE, METHYL-	SEMI3	231	13.	JB
~~2~~	~~95-57-8~~	PP ~~PHENOL, 2-CHLORO-~~	~~SEMI3~~	~~453~~	~~27.~~	~~J~~
~~3~~	~~621-64-7~~	PP ~~1-PROPANAMINE, N-NITROSO-N-PROPYL-~~	~~SEMI3~~	~~507~~	~~20.~~	~~J~~
~~4~~	~~13189-13-4~~	D3-2,4-Dinitrophenol ~~1H-IMIDAZOLE-4-CARBOXAMIDE, N-PHENYL-~~	~~SEMI3~~	~~747~~	~~42.~~	J
~~5~~	~~57-10-3~~	anthracene HEXADECANOIC ACID	SEMI3	930	14.	J
2.	57-10-3					

2.000 40.00

SPECTROSCOPIST _____

DATE 4/17/10


COMPUCHEM LABS
RIC
11/17/85 9:19:00
SAMPLE: 1.0UL CC#66515 (11-9-85) CASE#URS EPA#52237-D
CONDS.:
COMPUCHEM DATA: GH066511A16 SCANS 223 TO 1625
OUT OF 223 TO 1625
437120.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
RIC
368
468
507
579
633
680
742
815
877
936
1010
1122
1218
1314
1385
1501
400
6:01
600
9:01
800
12:02
1200
18:03
1400
21:03
1600
24:0
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI3 FILENAME: GH066511A16 DATE: 11/17/85
SHIFT STD: HH851117A16 TIME: 9:19

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	71440.	71447.	0.	PASS
*460 D8-NAPHTHALENE (IS#2)	242035.	228767.	6.	PASS
*495 D10-ACENAPHTHENE (IS#3)	107299.	97927.	10.	PASS
*467 D10-PHENANTHRENE (IS#4)	121515.	118183.	3.	PASS
*459 D12-CHRYSENE (IS#5)	53451.	61439.	-12.	PASS
*497 D12-PERYLENE (IS#6)	43367.	58955.	-25.	PASS

11/17/85

```
QUANTITATION REPORT    FILE: GH066511A16

DATA: GH066511A16.TI
11/17/85  9:19:00
SAMPLE: 1.0UL CC#66515 (11-9-85) CASE#URS EPA#52237-D
   IDS.:
SUBMITTED BY: 16              ANALYST: 644

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
  3  610 PHENOL (G1#3) <108-95-2>
  4  473 ANILINE (G1#4) <62-53-3>
  5  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
  6  601 2-CHLOROPHENOL (G1#6) <95-57-8>
  7  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
  8  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
  9  474 BENZYL ALCOHOL (G1#9) <100-51-6>
 10  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
 11  620 2-METHYLPHENOL (G1#11) <95-48-7>
 12  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 13  622 4-METHYLPHENOL (G1#13) <106-44-5>
 14  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 15  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 16  440 NITROBENZENE (G1#16) <98-95-3>
 17  *460 D8-NAPHTHALENE (IS#2)
 18  438 ISOPHORONE (G2#2) <78-59-1>
 19  606 2-NITROPHENOL (G2#3) <88-75-5>
     603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 21  625 BENZOIC ACID (G2#5) <65-85-0>
 22  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 23  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 24  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 25  439 NAPHTHALENE (G2#9) <91-20-3>
 26  475 4-CHLOROANILINE (G2#10) <106-47-8>
 27  434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
 28  608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
 29  477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
 30  *495 D10-ACENAPHTHENE (IS#3)
 31  435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
 32  611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
 33  626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
 34  416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
 35  478 2-NITROANILINE (G3#6) <88-74-4>
 36  425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
 37  402 ACENAPHTHYLENE (G3#8) <208-96-8>
 38  479 3-NITROANILINE (G3#9) <99-09-2>
 39  401 ACENAPHTHENE (G3#10) <83-32-9>
 40  @605 2,4-DINITROPHENOL (G3#11) <51-28-5>
 41  607 4-NITROPHENOL (G3#12) <100-02-7>
 42  476 DIBENZOFURAN (G3#13) <132-64-9>
 43  427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
 44  428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
     424 DIETHYL PHTHALATE (G3#16) <84-66-2>
     417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
```

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
	#467 D10-PHENANTHRENE (IS#4)
	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	#459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	#497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
	#619 2-FLUOROPHENOL (SS#1)
	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	468	7:02	1	1.000	A BB	71440.	40.000	NG	5.30
2	42	NOT FOUND								
3	94	443	6:40	1	0.947	A BV	36600.	10.510	NG	1.39
4	93	NOT FOUND								
5	93	NOT FOUND								
6	128	453	6:49	1	0.968	A BV	69588.	27.157	NG	3.60
7	146	469	7:03	1	1.002	A BB	68596.	24.838	NG	3.29
8	146	469	7:03	1	1.002	A BB	68596.	23.848	NG	3.16
9	108	NOT FOUND								
10	146	NOT FOUND								
11	108	NOT FOUND								
12	45	NOT FOUND								
13	108	NOT FOUND								
14	70	507	7:37	1	1.083	A BV	48700.	24.175	NG	3.20
15	117	NOT FOUND								
16	77	NOT FOUND								
	136	579	8:42	17	1.000	A BV	242036.	40.000	NG	5.30
	82	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	547	8:14	17	0.945	A BB	4092.	3.324	NG	0.44
20	122	NOT FOUND								
21	122	558	8:23	17	0.964	A BB	3804.	2.907	NG	0.39 DDL
	93	NOT FOUND								
23	162	NOT FOUND								
24	180	576	8:40	17	0.995	A BB	43856.	21.904	NG	2.90
25	128	NOT FOUND								
26	127	NOT FOUND								
27	229	NOT FOUND								
28	107	633	9:31	17	1.093	A BB	49332.	25.745	NG	3.41
29	142	NOT FOUND								
30	164	742	11:09	30	1.000	A BV	107300.	40.000	NG	5.30
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	745	11:12	30	1.004	A BB	79384.	23.659	NG	3.13
40	184	NOT FOUND								
41	139	757	11:23	30	1.020	A BV	12740. 14.615	~~5.735~~	~~NG~~	0.76
42	168	NOT FOUND								
43	89	763	11:28	30	1.028	A BV	21864.	20.500	NG	2.72
44	165	NOT FOUND								
45	149	786	11:49	30	1.059	A BB	12412.	3.416	NG	0.45
46	204	NOT FOUND								
47	166	NOT FOUND								
	138	NOT FOUND								
49	188	877	13:11	49	1.000	A BV	121516.	40.000	NG	5.30
50	198	NOT FOUND								
51	169	803	12:04	49	0.916	A BB	2324.	1.398	NG	0.19
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	866	13:01	49	0.987	A BV	14376.	41.484	NG	5.50
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	936	14:04	49	1.067	A VV	125400.	21.251	NG	2.81
58	202	NOT FOUND								
59	240	1122	16:52	59	1.000	A BV	53452.	40.000	NG	5.30
60	184	1008	15:09	59	0.898	A BB	1132.	30.921	NG	4.10 ND
61	202	1010	15:11	59	0.900	A VV	74064.	26.549	NG	3.52
62	149	NOT FOUND								
63	252	NOT FOUND								
64	228	NOT FOUND								
65	149	NOT FOUND								
66	228	NOT FOUND								
67	264	1314	19:45	67	1.000	A BV	43368.	40.000	NG	5.30
68	149	NOT FOUND								
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
	278	NOT FOUND								
	276	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
75	112	368	5:32	1	0.786	A BV	39100.	15.725	NG	2.08
76	99	442	6:39	1	0.944	A BV	45332.	14.112	NG	1.87
77	82	517	7:46	17	0.893	A BV	64072.	22.995	NG	3.05
8	172	680	10:13	30	0.916	A BV	87240.	24.782	NG	3.28
79	141	815	12:15	30	1.098	A BV	8656.	39.484	NG	5.23
80	244	1025	15:25	59	0.914	A BV	43300.	28.922	NG	3.83
81	212	1008	15:09	59	0.898	A VV	67296.	29.649	NG	3.93
82	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48		10.000			50.00		0.652	
3	6:41	1.00	10.000	0.09	10.51	50.00	0.410	1.950	0.21
4	6:41		10.000			50.00		1.142	
5	6:46		10.000			50.00		1.776	
6	6:50	1.00	10.000	0.10	27.16	50.00	0.779	1.435	0.54
7	7:00	1.01	10.000	0.10	24.84	50.00	0.768	1.546	0.50
8	7:04	1.00	10.000	0.10	23.85	50.00	0.768	1.611	0.48
9	7:16		10.000			50.00		0.259	
10	7:16		10.000			50.00		1.477	
11	7:26		10.000			50.00		1.512	
12	7:28		10.000			50.00		1.777	
13	7:37		10.000			50.00		1.456	
14	7:38	1.00	10.000	0.11	24.17	50.00	0.545	1.128	0.48
15	7:43		10.000			50.00		0.695	
16	7:49		10.000			50.00		1.486	
17	8:44	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:09		10.000			50.00		0.854	
9	8:14	1.00	3.000	0.31	3.32	50.00	0.014	0.203	0.07
20	8:19		6.000			50.00		0.321	
21	8:29	0.99	50.000	0.02	2.91	50.00	0.013	0.216	0.06
22	8:26		10.000			50.00		0.464	
23	8:34		10.000			50.00		0.274	
24	8:41	1.00	10.000	0.10	21.90	50.00	0.145	0.331	0.44
25	8:45		10.000			50.00		1.110	
26	8:52		10.000			50.00		0.146	
27	9:01		10.000			50.00		0.165	
28	9:32	1.00	10.000	0.11	25.75	50.00	0.163	0.317	0.51
29	9:42		10.000			50.00		0.618	
30	11:10	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:02		10.000			50.00		0.296	
32	10:08		10.000			100.00		0.362	
33	10:08		50.000			100.00		0.362	
34	10:23		10.000			50.00		1.308	
35	10:33		50.000			50.00		0.466	
36	10:52		10.000			50.00		1.329	
37	10:58		10.000			50.00		1.922	
38	11:09		50.000			50.00		0.097	
39	11:13	1.00	10.000	0.10	23.66	50.00	0.592	1.251	0.47
40	11:17		50.000			50.00		0.131	
41	11:27	0.99	50.000	0.02	5.73	50.00	0.095	0.828	0.11
42	11:27		10.000			50.00		1.668	
43	11:29	1.00	10.000	0.10	20.50	50.00	0.163	0.398	0.41
44	10:57		10.000			50.00		0.285	
	11:51	1.00	10.000	0.11	3.42	50.00	0.093	1.354	0.07
	11:55		10.000			50.00		0.475	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	11:55		10.000			50.00		1.184	
48	12:00		50.000			50.00		0.153	
49	13:13	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
	12:03		50.000			50.00		0.107	
51	12:05	1.00	10.000	0.09	1.40	50.00	0.015	0.547	0.03
52	12:35		10.000			50.00		0.193	
53	12:48		10.000			50.00		0.222	
54	13:03	1.00	50.000	0.02	41.48	50.00	0.095	0.114	0.83
55	13:15		10.000			50.00		1.258	
56	13:18		10.000			50.00		1.224	
57	14:06	1.00	10.000	0.11	21.25	50.00	0.826	1.942	0.43
58	14:54		10.000			50.00		1.040	
59	16:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:11	1.00	50.000	0.02	30.92	50.00	0.017	0.027	0.62
61	15:13	1.00	10.000	0.09	26.55	50.00	1.108	2.088	0.53
62	16:09		10.000			50.00		1.284	
63	16:50		20.000			50.00		0.192	
64	16:52		10.000			50.00		1.343	
65	16:59		10.000			50.00		3.139	
66	16:56		10.000			50.00		1.283	
67	19:47	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:02		10.000			50.00		2.504	
69	18:54		10.000			100.00		1.144	
70	18:54		10.000			100.00		1.144	
71	19:38		10.000			50.00		1.150	
72	23:22		10.000			50.00		1.210	
73	23:28		10.000			50.00		1.051	
74	24:28		10.000			50.00		1.061	
75	5:33	1.00	0.742	1.06	15.72	50.00	0.438	1.392	0.31
	6:41	1.00	0.948	1.00	14.11	50.00	0.308	1.799	0.28
77	7:47	1.00	0.875	1.02	23.00	50.00	0.212	0.460	0.46
78	10:14	1.00	0.906	1.01	24.78	50.00	0.650	1.312	0.50
79	12:17	1.00	1.118	0.98	39.48	50.00	0.065	0.082	0.79
80	15:26	1.00	0.907	1.01	28.92	50.00	0.648	1.120	0.58
81	15:11	1.00	10.000	0.09	29.65	50.00	1.007	1.699	0.59
82	10:23		10.000			50.00		0.231	

LAB INSTRUCTIONS:

CASE#: URS DUE OATE: 12/06/85

SEMI-VOLATILE
C/MS WORKSHEET COMPUCHEM#: 66511

JC] RC] DC) (:1)

J2C] R2C] D2C] (:1)

QC

LOW LEVEL LIQUID

Sample Prep Code---056
Instrument Code----254
Compound List------142
Surrogate Std------392
Internal Std-------035

SAMPLE ID/EPA#: SS 273/386

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5.0 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 11/9/85
DFTPP Filename DH85117A16 Disk (2780)
Standard Filename HH85117A16 Disk ( )
Sample Filename GH66511A16 Disk (2)

ANALYST(S): Injection 644 Work-up CY4

GC/MS REVIEW

CONDITION CODE: OC

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS ED,IF,LA,DI,CO,RN,OW,DA

Disposition: [✓] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 2 PK203 11-17

# of Hits: 15

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 1

GC/MS Review [illegible] Date 11/12/85 Auditor ____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): GH---A16 /

QA COMMENTS:

Initials ____ Date ___/___/___

FINAL REVIEW: Initials ____ Date ___/___/___

AC383 (11/84)

	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	468	71400.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	40.
610	94		PHENOL (Q1#3) <108-95-2>			10.5 RW ~~9.8~~	J	40.
473	93		ANILINE (Q1#4) <62-53-3>				BDL	40.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	40.
601	128		2-CHLOROPHENOL (Q1#6) <95-5			27.2 RW ~~26.5~~	110. 54	40.
421	146		1,3-DICHLOROBENZENE (Q1#7)			~~23.0~~	BDL 92.	40.
422	146		1,4-DICHLOROBENZENE (Q1#8)			23.8 RW ~~21.9~~	88.4 48	40.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	40.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	40.
520	108		2-METHYLPHENOL (Q1#11) <95-				BDL	40.
412	45		BIS(2-CHLORDISOPROPYL)ETHER				BDL	40.
522	108		4-METHYLPHENOL (Q1#13) <106				BDL	40.
442	70		N-NITROSO-DI-N-PROPYLAMINE			24.2 RW ~~26.5~~	110. 48	40.
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	40.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	40.
460	136	I	D8-NAPHTHALENE (IS#2)	579	242000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	40.
506	139		2-NITROPHENOL (Q2#3) <88-75			3.3 ~~3.2~~	13 0	12.
503	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	24.
525	122		BENZOIC ACID (Q2#5) <65-85-				BDL	200.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	40.
502	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	40.
	180		1,2,4-TRICHLOROBENZENE (Q2#			21.9 RW ~~23.2~~	98.4	40.
	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	40.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	40.
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	40.
508	107		P-CHLORO-M-CRESOL (Q2#12) <			25.8 RW ~~22.2~~	89.4 52	40.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	40.
495	164	I	D10-ACENAPHTHENE (IS#3)	742	107000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	40.
511	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	40.
526	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	200.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	40.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	200.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	40.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	40.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	200.
401	153		ACENAPHTHENE (Q3#10) <83-32			23.6 RW	94.4	40.
405	184		2,4-DINITROPHENOL (Q3#11) <				BDL	200.
407	139		4-NITROPHENOL (Q3#12) <100-			18.6 RW ~~[illegible]~~	~~88~~ 37	200.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	40.
427	89		2,4-DINITROTOLUENE (Q3#14)			20.5 RW ~~19.9~~	86.4	40.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	40.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	40.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	40.
432	166		FLUORENE (Q3#17) <86-73-7>				BDL	40.
480	198		4-NITROANILINE (Q3#18) <100				BDL	200.
467	188	I	D12-PERYLENE (IS#4)	877	122000.	40.0		
	198		4,6-DINITRO-2-METHYLPHENOL				BDL	200
462	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	40.
441	248		4-BROMOPHENYL PHENYL ETHER				BDL	40.
433	284		HEXACHLOROBENZENE (Q4#21				DDL	40.
409	266		PENTACHLOROPHENOL (Q4#22			41.5 ~~29.0~~	J	200.

M/E	F		COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTHRENE (Q4#7) <85-01-				BDL	40.
403	178		ANTHRACENE (Q4#8) <120-12-7			21.3	BDL	40.
426	149		DI-N-BUTYL PHTHALATE (Q4#9)			~~21.5~~	86.43	40.
431	202		FLUORANTHENE (Q4#10) <206-4				BDL	40.
459	240	I	D12-CHRYSENE (IS#5)	1122	53400.	40.0		
404	184		BENZIDINE (Q5#2) <92-87-5>				BDL	200.
445	202		PYRENE (Q5#3) <129-00-0>			26.6 ~~27.8~~	~~110.~~ 53	40.
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	40.
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	80.
405	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	40.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	40.
418	228		CHRYSENE (Q5#8) <218-01-9>				BDL	40.
497	264	I	D12-PERYLENE (IS#6)	1314	43400.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	40.
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	40.
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	40.
406	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	40.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	40.
[illegible]	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	40.
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	40.
619	112	S	2-FLUOROPHENOL (SS#1)			14.8	30. %	
612	99	S	D5-PHENOL (SS#2)			13.8	28. %	
447	82	S	D5-NITROBENZENE (SS#3)			26.8	107. %	
[illegible]	172	S	2-FLUOROBIPHENYL (SS#4)			24.9	100. %	
[illegible]	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			40.6	81. %	
496	244	S	D14-TERPHENYL (SS#6)			27.9	112. %	
471	212	S	D10-PYRENE			29.8	119. %	
456	216		1,2,3,4 TETRACHLOROBENZENE				BDL	40.
CHECKSUMS:								
13057.	4075			5102	639200.	706.6	1542.	

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
75	619	2-FLUOROPHENOL (SS#1)	15.7 ~~14.8~~	50.0	~~30~~ 31	23-121	X
76	612	D5-PHENOL (SS#2)	14.1 ~~13.8~~	50.0	~~28~~ 28	15-103	X
77	447	D5-NITROBENZENE (SS#3)	23.0 ~~26.8~~	25.0	~~107~~ 92	41-120	X
78	448	2-FLUOROBIPHENYL (SS#4)	24.8 ~~24.9~~	25.0	~~100~~ 99	44-119	X
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	39.5 ~~40.6~~	50.0	~~81~~ 79	10-130	X
80	496	D14-TERPHENYL (SS#6)	28.9 ~~27.9~~	25.0	~~116~~ 116	33-128	X
81	471	D10-PYRENE	29.6 ~~29.8~~	25.0	~~119~~ 118	33-128*	X

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{\sout{1.0\text{ML}}\ 0.5\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1000.\text{ML}}{500.\text{ML}} \times 1.0 \times 2 = \sout{4.000}\ 2.00$$

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{500\ \text{UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{500\ \text{UL}}{\sout{500}\ \text{UL}} \times \frac{\sout{1.0\text{ML}}\ 0.5\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times 1.0 \times 2 = 2.000$$

VERSION 4

QUALITY ASSURANCE NOTICE
fraction # SV
sample # 66511

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scan: 231 _____ _____ _____ _____ _____

QAN105
850531

(1)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Audrey, Matt, Kenny (AJ MEF KBH)

DATE ASSIGNED 11-9-85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
66509	SC	USA	N/A	BS		500 ml		0.5	0.5		13	1	11-9	0.25 ml of surrogate spike used, concentrated down to 0.5 ml; diluted up to 1000 ml with dist. H2O.
66510		USA		SS	66513	500 ml		0.5	0.5		13	1	11-9	
66511		USA		SS	66513	500 ml		0.5	0.5		13	1	11-9	
66512		USA				1000 ml		1.0	1.0		13	1	11-9	
66515						1000 ml		1.0	1.0		13	1	11-9	
66517						1000 ml		1.0	1.0		13	1	11-9	
66521						1000 ml		1.0	1.0		13	1	11-9	
66783				BS'		1000 ml		1.0	1.0		13	1	11-9	
66784				BS"		1000 ml		1.0	1.0		13	1	11-9	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	353					
	AMT.	0.5					
	LOT	12996					
SPIKE	NO.		3012	2021			
	AMT.		0.250 ml	0.250 ml			
	LOT		16021	15998			

MANUAL COUNTER 272/652

FINAL VOLUME VERIFIED MEF

SUPERVISOR REVIEWED MS. MEF

EXTRACTS RECEIVED BY PM 11/10

No 629

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. URS Contractor CompuChem Laboratories Contract No. Platinum

Low XXX Medium

	[Volatile]				[Semi-Volatile]						[Pesticide]
SMO Traffic No.	Toluene D8 (86-119)	BFB (85-121)	1,2 Dichloro Ethane-D4 (77-120)	Nitro Benzene-D5 (41-120)	2-Fluoro Biphenyl (44-119)	Terphenyl D14- (33-128)	D10-Pyrene (Lab Optional)	Phenol-D5 (15-103)	2-Fluoro-Phenol (23-121)	2,4,6,Tribromo Phenol (10-130)	Dibutyl Chlorendate (46-136)**
SAMPLE #B	87	92	89	82	90	108	101	39	70	69	NR
SAMPLE #D	100	102	100	72	94	112	105	32	52	50	NR
SAMPLE #E	98	100	97	72	89	114	100	37	67	61	NR
SAMPLE #F	92	96	94	71	98	96	88	34	58	69	NR
SAMPLE #G	99	98	98	74	92	119	113	31	56	63	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 15; outside of QC limits
Semi-Volatile 0 out of 30; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (water)

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. URS Contractor CompuChem Laboratories Contract No. Platinum

Low XXX Medium

	Volatile						Semi-Volatile				Pesticide
SMO raffic No.	Toluene D8 (86-119)	BFB (85-121)	1,2 Dichloro Ethane-D4 (77-120)	Nitro Benzene-D5 (41-120)	2-Fluoro Biphenyl (44-119)	Terphenyl D14- (33-128)	D10-Pyrene (Lab Optional)	Phenol-D5 (15-103)	2-Fluoro-Phenol (23-121)	2,4,6, Tribromo Phenol (10-130)	Dibutyl Chlorendate (48-136)**
SAMPLE -MS	93	97	96	NR	NR	NR	NR	NR	NR	NR	NR
SAMPLE -MSD	96	97	99	NR	NR	NR	NR	NR	NR	NR	NR
SAMPLE -MS	NR	NR	NR	66	62	103	104	36	50	88	NR
SAMPLE -MSD	NR	NR	NR	61	60	93	92	33	39	78	NR
68392-B	97	98	90	NR	NR	NR	NR	NR	NR	NR	NR
68827-B	NR	NR	NR	76	97	117	108	32	60	98	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**=ADVISORY LIMITS ONLY

Volatiles: 0 out of 9; outside of QC limits
Semi-Volatile 0 out of 18; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (water)

Case No. URS Contractor Compuchem Contract No. Platinum

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA SMO SAMPLE NO. SAMPLE #6	1,1-Dichloroethene	50	5.0 u	53	106	54	108	2	14	61-145
	Trichloroethene	50	5.0 u	48	96	49	98	2	14	71-120
	Chlorobenzene	50	5.0 u	48	98	50	100	2	13	75-130
	Toluene	50	5.0 u	50	100	51	102	2	13	76-125
	Benzene	50	5.0 u	51	102	53	106	4	11	76-127
B/N SMO SAMPLE NO. SAMPLE #6	1,2,4-Trichlorobenzene	~~50~~ 25	20 u	13	52	16	64	23	28	39-98
	Acenaphthene	~~50~~ 25	20 u	17	68	17	68	3	31	46-118
	2,4-Dinitrotoluene	~~50~~ 25	20 u	18	72	14	56	25	38	24-96
	Di-n-Butylphthalate	~~50~~ 25	20 u	18	72	18	72	0	40	11-117
	Pyrene	~~50~~ 25	20 u	24	96	22	88	9	31	26-127
	N-Nitroso-Di-n-Propylamine	~~50~~ 25	20 u	14	56	13	52	7	38	41-116
	1,4-Dichlorobenzene	~~50~~ 25	20 u	10	40	12	48	18	28	36-97
ACID SMO SAMPLE NO. SAMPLE #6	Pentachlorophenol	~~100~~ 50	100 u	348	70	268	54	26	50	9-103
	Phenol	~~100~~ 20	20 u	11	22	7.8	16	34	42	12-89
	2-Chlorophenol	~~100~~ 50	20 u	28	56	24	48	15	40	27-123
	4-Chloro-3-Methylphenol	~~100~~ 50	20 u	34	68	31	62	9	42	23-97
	4-Nitrophenol	~~100~~ 20	100 u	148	29	118	24	22	50	10-80
PEST SMO SAMPLE NO.	Lindane	.2							15	56-123
	Heptachlor	.2							20	40-131
	Aldrin	.2							22	40-120
	Dieldrin	.5							18	52-126
	Endrin	.5							21	56-121
	4,4'-DDT	.5							27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:
- VOAs 0 out of 5; outside QC limits
- B/N 9 out of 7; outside QC limits
- ACID 0 out of 5; outside QC limits
- PEST ____ out of 6; outside QC limits

RECOVERY:
- VOAs 0 out of 10; outside QC limits
- B/N 0 out of 14; outside QC limits
- ACID 6 out of 10; outside QC limits
- PEST ____ out of 12; outside QC limits

Comments: ____

REAGENT BLANK SUMMARY

INSTRUMENT BLANK

Case No. URS Contractor COMPUCHEM Contract No.

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	LAB. ID	CAS NUMBER	COMPOUND (NBS, TIC OR MIXTURE)	CONC.	UNITS	Q
CB851121A12	11-21	VOA	liquid	Low	A12	67-64-1	Acetone	2.1	ug/L	U
CB851122A13	11-22	"	liquid	Low	A13	—	None	—	—	—
CB851122C12	11-22	Low	liquid	Low	C12	75-09-2	Methylene Chloride	275	ug/L	5.
"	"	"	"	"	"	67-64-1	Acetone	1.6	"	J 10.

Comments:

FORM I

REAGENT BLANK SUMMARY

Case No. UKE Contractor Compu Chem Contract No.

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (NSC, FIC OR UNKNOWN)	CONC.	UNITS	CRDL
CN068392	11/22	V	L	L	A13	75-09-2	Methylene Chloride	2.5 J	ug/L	5
GHA06827	12/05	SV	Liquid	Low	C.21	108-87-2	Hydrocarbon	16 J	ug/L	N/R

Comments:

FORM IV

Case No. URS Contractor Compuchem Contract No.

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
6J069971	12-06-85	BV	LIQ.	L	A22	—	None	—	—	—

comments:

FORM IV

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

CASE NO: ukS CONTRACTOR: CompuChem Labs CONTRACT: 68-01-6866 68-01-7017

INSTRUMENT ID: 2 DATE: 12/04/85 TIME: 16:39

LAB ID: DF851204B21 DATA RELEASE AUTHORIZED BY: SB _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	38.64	1
66	Less than 2.0% of mass 69	0.00	(0.00)
69	Mass 69 relative abundance	37.59	1
70	Less than 2.0% of mass 69	0.00	(0.00)
127	40.0 - 60.0% of mass 198	46.26	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	7.77	
275	10.0 - 30.0% of mass 198	28.13	
365	Greater than 1.00% of mass 198	3.91	
441	Present, but less than mass 443	12.07	
442	Greater than 40.0% of mass 198	81.78	2
443	17.0 - 23.0% of mass 442	15.91	(19.45)

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	DF851204B21	12/04/85	16:39
50 NG STD	RMBC1204521	12/04/85	16:57
CHECK CHECK	SC851204B21	12/04/85	19:57
CB907	GHD67773C21	12/04/85	21:17
CB908	GHD67774P21	12/04/85	21:54
CB909	GHD67775621	12/04/85	23:07
COMM	GHD68827C21	12/05/85	:18
COMM	GHD68367C21	12/05/85	:53
COMM	GHD68368C21	12/05/85	1:27
COMM	GHD68381C21	12/05/85	2:07
COMM	GHD68380C21	12/05/85	2:39
COMM	GJD68380C21	12/05/85	3:17
COMM	GHD68382C21	12/05/85	3:50
COMM	GHD68390C21	12/05/85	4:21

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

CASE NO: UKS CONTRACTOR: CompuChem Labs CONTRACT: 68-01-7017 68-01-6864

INSTRUMENT ID: 21 DATE: 12/05/85 TIME: 7:01

LAB ID: GH851205S21 DATA RELEASE AUTHORIZED BY: CTM _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	30.83	1
68	Less than 2.0% of mass 69	0.00	(0.00)
69	Mass 69 relative abundance	26.54	1
70	Less than 2.0% of mass 69	0.42	(1.61)
127	40.0 - 60.0% of mass 198	42.75	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	6.77	
275	10.0 - 30.0% of mass 198	23.61	
365	Greater than 1.00% of mass 198	3.65	
441	Present, but less than mass 443	12.76	
442	Greater than 40.0% of mass 198	92.89	2
443	17.0 - 23.0% of mass 442	18.24	(19.80)

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	GH851205S21	12/05/85	7:01
STNDRD	HS851205A21	12/05/85	8:09
SURRCHK	SCS51205A21	12/05/85	9:17
COMM	GJ068390A21	12/05/85	9:43
COMM	GH068391A21	12/05/85	10:12
BLANK	GH069611A21	12/05/85	10:45
BD954MS	GH069252A21	12/05/85	11:19
BD954MSD	GH069253A21	12/05/85	12:04
BD954	GH069261A21	12/05/85	13:22
BD697	GH069247A21	12/05/85	14:15
BD949	GH069254A21	12/05/85	15:09
BD950	GH069256B21	12/05/85	16:01
BD951	GH069259B21	12/05/85	16:40
BD952	GH069260B21	12/05/85	17:38

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

CASE NO: UR5 CONTRACTOR: CompuChem Labs CONTRACT: 68-01-6866 68-01-7017

INSTRUMENT ID: 22 DATE: 12/06/85 TIME: 13:06

LAB ID: DH851206A22 DATA RELEASE AUTHORIZED BY: CM

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	53.27	1
68	Less than 2.0% of mass 69	0.71	(1.35)
69	Mass 69 relative abundance	52.48	1
70	Less than 2.0% of mass 69	0.38	(0.72)
127	40.0 - 60.0% of mass 198	46.46	
197	Less than 1.0% of mass 198	0.16	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	6.65	
275	10.0 - 30.0% of mass 198	18.65	
365	Greater than 1.00% of mass 198	1.60	
441	Present, but less than mass 443	8.24	
442	Greater than 40.0% of mass 198	60.71	2
443	17.0 - 23.0% of mass 442	11.70	(19.27)

1 Value in parentnesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	DH851206A22	12/06/85	13:06
50NGSTD	HG851206A22	12/06/85	13:20
SURRCHEK	SC851206A22	12/06/85	14:29
BLANK	GH069771A22	12/06/85	14:57
BLANK	GJ069771A22	12/06/85	15:27
BLANK	GH069532B22	12/06/85	16:11
BLANK	GH069533B22	12/06/85	17:01
DB407MS	GRJ66999B22	12/06/85	17:53
COMM	GR067087B22	12/06/85	18:37
COMM	GR06B38BB22	12/06/85	19:26
COMM	GR068387B22	12/06/85	21:13
TEST	GH069691B22	12/06/85	21:57
TEST	GH065390B22	12/06/85	23:02
BD451	GR067632B22	12/06/85	23:50

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

-7017
-6866
68-01-6866

Case No. UBS Contractor COMPUCHEM® LABORATORIES, INC. Contract No.

Instrument ID 12 Date 11/21/85 Time 12:44

Lab ID COMPUCHEM Data Release Authorization By: JS

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	21.9
75	30.0 - 60.0% of the base peak	43.8
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	8.33
173	less than 1.0% of the base peak	–
174	Greater than 50.0% of the base peak	79.0
175	5.0 - 9.0% of mass 174	5.93 7.51 (~~7.59~~)
176	Greater than 95.0%, but less than 101.0% of mass 174	76.5 (96.8)[1]
177	5.0 - 9.0% of mass 176	5.04 (6.59)[2]

[1]Value in parenthesis is % mass 174
[2]Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BFB851121A12	11/21/85	12:44	577	124	
ML. STD	CS851121A12		13:05			
Inst. Blank	CB851121A12		14:00			
ML. STD	CT851121A12		15:01			
M.L. STD	CU851121A12		15:51			
AE289	CN068226B12		16:59	633		
HB#1	CN068241B12		17:39	633		
AE212	CN068184B12		18:26	714		
AE300	CN068189B12		19:09	714		
SS#1	CN068186B12		20:42	890		
SS#2	CN068187B12		21:32			
HB#1	CN068190B12		22:20			
#D	CN068380B12		23:05			
#E	CN068381B12		23:48			
#6	CN068382C12	11/22/85	0:27	812		

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

-7017
-6866

Case No. UAS Contractor COMPUCHEM® LABORATORIES, INC. Contract No. 68-01-6866

Instrument ID 12 Date 11/22/85 Time 2:03 - 14:03

Lab ID COMPUCHEM Data Release Authorization By: [signature] 11/22/85

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	14.6	
75	30.0 - 60.0% of the base peak	42.8	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	6.80	
173	less than 1.0% of the base peak	—	
174	Greater than 50.0% of the base peak	64.2	
175	5.0 - 9.0% of mass 174	5.19	(7.94)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	65.2	(98.5)[1]
177	5.0 - 9.0% of mass 176	4.56	(6.99)[2]

[1]Value in parenthesis is % mass 174
[2]Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BF851122C12	11/22/85	2:03	812	125	
	CS851122C12		2:33			
	CB851122C12		3:25			
	CT851122C12		4:08			
Q0623	CR068097C12		5:08			
SS of #G	CN068384C12		6:06			
SS of #G	CN068385C12		7:01			
#F	CN068391C12		7:46			
#B	CN068390A12		8:30			
PE Sample	CN066194A12		9:42	577		
PE Sample	CN066195A12		10:49			
PE Sample	CN066190A12		11:54			
PE Sample	CR066190A12		12:46			
Q0631	CN068290A12		13:33			

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

-7017
-6866

Case No. URS Contractor COMPUCHEM® LABORATORIES, INC. Contract No. 68-01-6866

Instrument ID 13 Date 11/22/85 Time 0808

Lab ID COMPUCHEM Data Release Authorization By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	15.4	
75	30.0 - 60.0% of the base peak	38.8	
95	Base peak, 100% relative abundance	100	
96	5.0 - 9.0% of the base peak	6.73	
173	less than 1.0% of the base peak	-	
174	Greater than 50.0% of the base peak	67.4	
175	5.0 - 9.0% of mass 174	4.43	(6.57)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	66.4	(98.5)[1]
177	5.0 - 9.0% of mass 176	3.59	(5.41)[2]

[1]Value in parenthesis is % mass 174.
[2]Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS	OPERATOR	DISK	TAPE
	BJ851122C13	11/22/85	0808	812	13	
	CS851122A13		0825	633		
	CB851122AD		0912	891		
HBI	CN068392A13		1001			
Q0627	CN068274A13		1102			
PE	CN066190A13		1201	633		
Q0628	CN066267A13		1249	577		
Q0629	CN068268A13		1330	633		
SS	CN068293A13		1417	577		
SS	CN068284A13		1503			
Q0634	CN068293A13		1557			
Q0635	CN068438B13		1703	714		
Q0636	CN068439B13		1840	890		

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR VOLATILE HSL COMPOUNDS

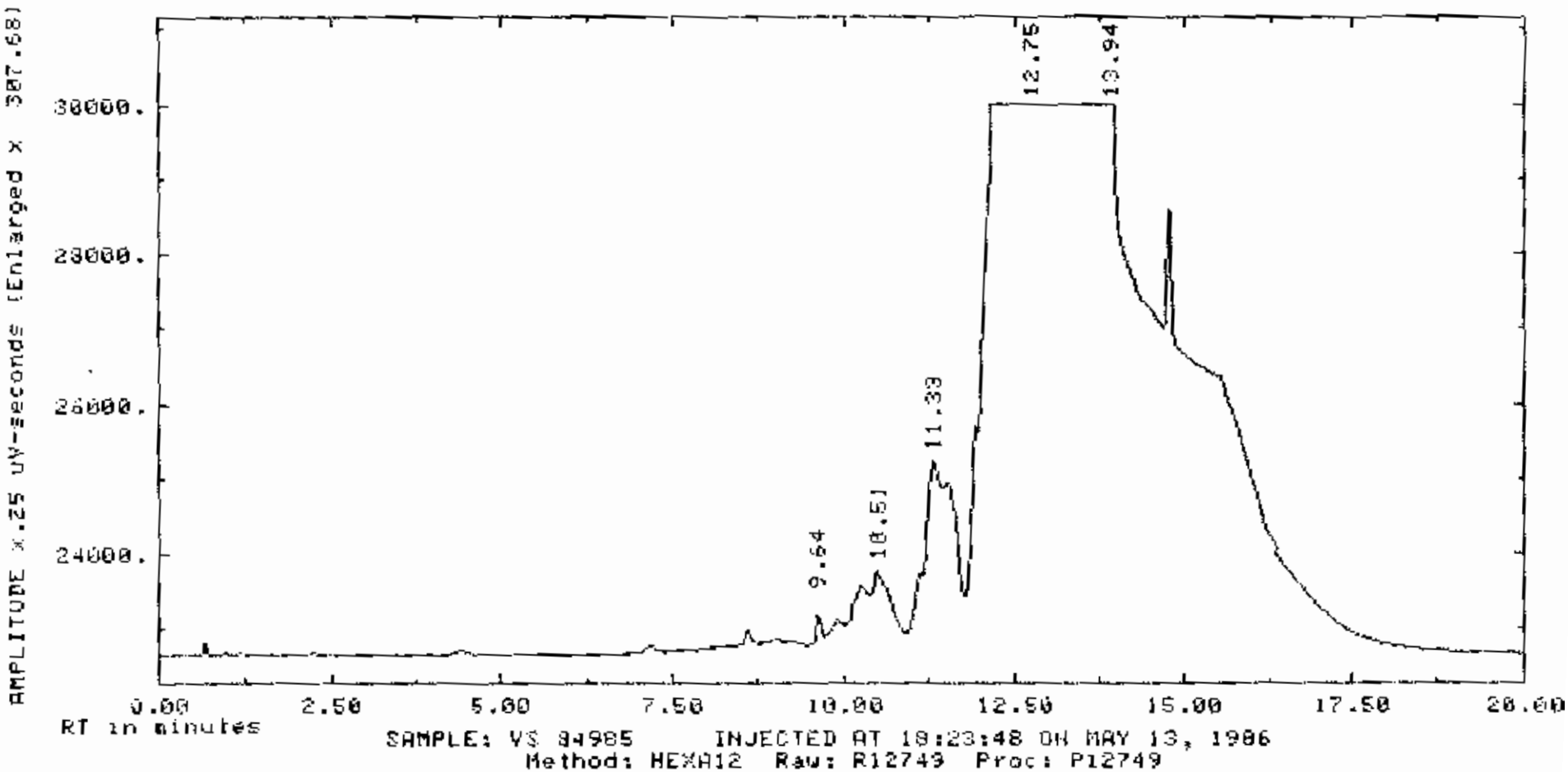
VOLATILE COMPOUNDS DETECTION LIMIT STUDY - AMENDED JANUARY 15, 1985

NAME	MEAN	STD. DEV.	3 x STD. DEV (Converted to ug/L) Inst. DET. Limit
Bromochloromethane (IS)	-----	--------	ug/L
Chloromethane	105874	19930	28
Bromomethane	149468	16890	17
Vinyl Chloride	124730	14679	18
Chloroethane	64914	5398	12
Methylene Chloride	121772	14054	17
Acetone (2-Propanone)	22417	1979	13
Carbon Disulfide	355229	51739	22
1,1-Dichloroethylene	116890	14657	19
1,1-Dichloroethane	216032	26269	18
Trans -1,2 -Dichloroethylene	111789	15069	20
Chloroform	261539	29277	17
1,2-Dichloroethane	181477	16957	14
1,4 Difluorobenzene (Internal Std)	------	-----	--
2-Butanone	12072	1374	17
1,1,1-Trichloroethane	195419	23261	18
Carbon Tetrachloride	201317	17824	13
Vinyl Acetate	199598	23864	18
Bromodichloromethane	230138	26399	17
1,2-Dichloropropane	158286	16219	15
Trans-1,3-Dichloropropene	196807	24068	18
Trichloroethylene	173661	15429	13
Chlorodibromomethane	195098	15979	12
1,1,2-Trichloroethane	137818	11975	13
Benzene	381933	26886	10
CIS-1,3-Dichloropropene	164184	14236	13
2-Chloroethyl Vinyl Ether	87902	12117	21
Bromoform	130767	8839	10
D5 Chlorobenzene (Internal Std.)	------	-------	--
2-Hexanone	114919	13303	17
4-Methyl-2-Pentanone	82333	9210	17
Tetrachloroethene	158468	14255	13
1,1.2,2-Tetrachloroethane	186826	15490	12
Toluene	247542	27182	16
Chlorobenzene	338123	25840	11
Ethylbenzene	173342	13736	12
Styrene	366700	34503	14
M-Xylene	230196	21856	14
O- & P-Xylene	451397	42601	28
D4-1,2-Dichloroethane	------	-------	--
Bromofluorobenzene	------	-------	--
D8-Toluene	------	-------	--

INSTRUMENT DETECTION LIMITS FOR SEMI-VOLATILE HSL COMPOUNDS, JUNE 19, 1985

4,6-DINITRO-2-METHYLPHENOL	27.94	30.51	44.55	34.33	8.94	26
N-NITROSODIPHENYLAMINE	58.27	49.58	62.41	56.75	6.55	19
4-BROMOPHENYL PHENYL ETHER	59.56	61.91	69.33	63.60	5.10	15
HEXACHLOROBENZENE	63.39	61.52	70.78	65.23	4.89	14
PENTACHLOROPHENOL	48.23	45.84	39.21	44.43	4.67	14
PHENANTHRENE	54.58	50.49	60.27	55.12	4.91	14
ANTHRACENE	51.69	49.46	59.31	53.49	5.17	15
DI-N-BUTYL PHTHALATE	48.57	37.41	52.02	46.00	7.63	22
FLUORANTHENE	47.84	40.84	48.22	45.63	4.15	12
BENZIDINE	50.83	--	--	16.94	29.35	88
PYRENE	61.13	62.82	63.68	62.55	1.30	3
BUTYLBENZYL PHTHALATE	33.54	30.74	42.0	35.43	5.87	17
3,3 DICHLOROBENZIDINE	46.26	19.41	39.82	35.16	14.01	42
BENZO(A)ANTHRACENE	52.54	50.75	52.08	51.79	.93	2
BIS(2-ETHYLHEXYL) PHTHALATE	46.86	42.82	50.92	46.87	4.05	12
CHRYSENE	54.14	48.36	52.70	51.73	3.01	9
DI-N-OCTYL PHTHALATE	49.50	41.56	50.23	47.10	4.81	14
BENZO(B)FLUORANTHENE	61.94	59.52	62.04	61.17	1.43	4
BENZO(K)FLUORANTHENE	61.94	59.52	62.04	61.17	1.43	4
BENZO(A)PYRENE	58.89	30.68	59.53	49.69	16.47	49
INDENO(1,2,3-C,D)PYRENE	62.71	62.30	86.82	70.61	14.04	42
DIBENZO(A,H)ANTHRACENE	68.05	65.33	90.91	74.77	14.05	42
BENZO(G,H,I)PERYLENE	62.42	63.53	88.56	71.50	14.78	44

G


AMPLITUDE x.25 uV-seconds (Enlarged x 387.68)
30000.
28000.
26000.
24000.
9.64
10.51
11.33
12.75
13.94
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 84985 INJECTED AT 18:23:48 ON MAY 13, 1986
Method: HEXA12 Raw: R12749 Proc: P12749

Report: 98.00 Channel: 12

Sample: VS 84985 Injected at 18:23.48 ON MAY 13, 1986

ZERO Method: HEXA12 Seq: SEQ127 Subsq/Samp: 1/49 Dtl: 49

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

RT	ITM	Factor	Area		AREA %	Name
9.64	0.00	.10000E+01	243.	BB	.000	
10.51	0.00	.10000E+01	13591.	BH	.019	
11.33	0.00	.10000E+01	33677.	HH	.047	
12.75	0.00	.10000E+01	72359440.	MS	99.930	
13.94	0.00	.10000E+01	3357.	TT	.005	

Total Area = 72410304. Total AREA % = 3356.844

Processed data file: P12749 Raw data file: R12749

Initial Calibration Data
Volatile HSL Compounds

Lab No: UCS
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : CMA 812
Calibration Date : 10/24/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CW851024B12	CS851024B12	CW851024B12	CW851024B12	CT851024B12			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
Chloromethane	.774	.928	.886	.942	.817	0.869	8.293	**
Bromomethane	1.346	1.347	1.363	1.291	1.135	1.297	7.266	
Vinyl Chloride	.976	1.035	1.050	.979	.929	0.994	4.925	*
Chloroethane	.542	.545	.546	.500	.486	0.523	5.441	
Methylene Chloride	1.679	1.404	1.335	1.354	1.179	1.390	13.075	
Acetone	.306	.300	.273	.282	.281	0.288	4.883	
Carbon Disulfide	4.616	4.119	4.194	3.840	3.725	4.098	8.482	
1,1-Dichloroethene	1.508	1.430	1.365	1.307	1.243	1.387	9.537	*
1,1-Dichloroethane	2.416	2.223	2.141	2.059	1.980	2.164	7.752	**
Trans-1,2-Dichloroethene	1.627	1.475	1.402	1.341	1.285	1.426	9.326	
Chloroform	2.817	2.561	2.392	2.301	2.215	2.457	9.706	*
1,2-Dichloroethane	1.535	1.442	1.371	1.344	1.302	1.399	6.547	
2-Butanone	.032	.030	.029	.029	.029	0.030	4.634	
1,1,1-Trichloroethane	.431	.406	.382	.375	.358	0.391	7.273	
n Tetrachloride	.423	.398	.376	.373	.360	0.386	6.372	
yl Acetate	.527	.488	.497	.479	.485	0.495	3.809	
Bromodichloromethane	.561	.527	.502	.496	.474	0.512	6.504	
1,2-Dichloropropane	.440	.407	.382	.369	.351	0.390	8.915	*
Trans-1,3-Dichloropropene	.247	.235	.226	.228	.221	0.231	4.304	
Trichloroethene	.484	.438	.413	.401	.396	0.426	8.457	
Dibromochloromethane	.438	.426	.418	.420	.403	0.421	2.998	
1,1,2-Trichloroethane	.410	.365	.333	.320	.305	0.347	12.141	
Benzene	.977	.858	.760	.712	.687	0.799	14.907	
cis-1,3-Dichloropropene	.623	.584	.552	.543	.526	0.566	6.795	
2-Chloroethylvinylether	.160	.176	.171	.180	.179	0.173	4.746	
Bromoform	.265	.280	.280	.294	.293	0.282*	4.199	**
4-Methyl-2-Pentanone	.415	.415	.404	.392	.403	0.406	2.363	
2-Hexanone	.293	.257	.243	.248	.246	0.257	8.027	
Tetrachloroethene	.401	.364	.338	.336	.331	0.354	8.235	
1,1,2,2-Tetrachloroethane	.714	.660	.612	.590	.570	0.629	9.231	**
Toluene	.760	.698	.645	.611	.585	0.658	10.529	*
Chlorobenzene	1.025	.921	.865	.829	.803	0.889	9.922	**
Ethylbenzene	.552	.489	.453	.435	.418	0.469	11.270	*
Styrene	1.284	1.116	1.096	1.025	1.007	1.105	9.946	
TOTAL XYLENES	.691	.597	.581	.544	.536	0.590	10.505	

Response Factor (subscript is the amount of ug/L)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Volatile HSL Compounds

e No: URS
ractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : OWA #13
Calibration Date : 11/20/85

Minimum Avg RF for SPCC is 0.300

Maximum %RSD for CCC is 30%

Laboratory ID	CT851120C13	CS851120C13	CU851120C13	CV851120C13	CW851120C13			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
Chloromethane	.864	.925	.628	.796	.634	0.769	17.440	* *
Bromomethane	1.009	1.961	1.504	1.594	1.353	1.684	11.499	
Vinyl Chloride	1.536	1.596	1.217	1.341	1.264	1.391	12.023	*
Chloroethane	.836	.900	.696	.716	.692	0.768	12.304	
Methylene Chloride	1.141	1.076	.917	.891	.892	0.984	11.910	
Acetone	.123	.126	.108	.105	.112	0.115	8.142	
Carbon Disulfide	3.486	3.504	2.923	3.100	3.046	3.212	8.316	
1,1-Dichloroethene	1.253	1.280	1.099	1.091	1.107	1.166	7.927	*
1,1-Dichloroethane	1.920	1.787	1.595	1.604	1.678	1.717	8.609	* *
Trans-1,2-Dichloroethene	1.326	1.330	1.148	1.145	1.162	1.222	7.938	
Chloroform	2.311	2.264	1.950	1.931	1.998	2.091	8.713	*
1,2-Dichloroethane	1.216	1.181	1.029	1.025	1.050	1.100	8.281	
2-Butanone	.021	.021	.019	.018	.019	0.020	6.454	
1,1,1-Trichloroethane	.363	.357	.305	.307	.320	0.330	8.348	
[illegible]on Tetrachloride	.355	.362	.313	.318	.336	0.337	6.307	
[illegible] Acetate	.344	.381	.364	.406	.441	0.387	9.715	
Bromodichloromethane	.459	.476	.420	.433	.463	0.450	5.096	
1,2-Dichloropropane	.356	.345	.305	.313	.331	0.330	6.440	*
Trans-1,3-Dichloropropene	.194	.202	.184	.189	.203	0.194	4.207	
Trichloroethene	.453	.444	.367	.381	.405	0.414	7.925	
Dibromochloromethane	.450	.481	.443	.452	.498	0.465	5.052	
1,1,2-Trichloroethane	.355	.354	.321	.318	.341	0.338	5.245	
Benzene	.889	.861	.755	.750	.776	0.806	7.986	
cis-1,3-Dichloropropene	.535	.583	.542	.553	.615	0.570	5.199	
2-Chloroethylvinylether	.206	.204	.190	.198	.208	0.201	3.658	
Bromoform	.288	.312	.292	.296	.326	0.303	5.262	* *
4-Methyl-2-Pentanone	.258	.260	.244	.251	.246	0.252	2.719	
2-Hexanone	.179	.174	.157	.164	.163	0.167	5.230	
Tetrachloroethene	.453	.459	.401	.409	.395	0.423	7.146	
1,1,2,2-Tetrachloroethane	.569	.563	.511	.520	.531	0.539	4.804	* *
Toluene	.679	.656	.582	.571	.550	0.608	9.313	*
Chlorobenzene	1.055	1.009	.879	.859	.842	0.929	10.401	* *
Ethylbenzene	.480	.462	.386	.395	.382	0.421	11.024	*
Styrene	1.114	1.100	.928	.965	.890	0.999	10.197	
TOTAL XYLENES	.658	.660	.554	.574	.521	0.593	10.644	

Response Factor (subscript is the amount of ug/L)
Avg. RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Semivolatile HSL Compounds
(Page 1)

Case No: URS
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : CMA A21
Calibration Date : 12/02/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MI851202A21	MG851202A21	MN851202A21	MJ851202A21	MH851202A21			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-Nitrosodimethylamine	1.653	1.616	1.362	1.292	2.008	1.586	17.846	
Phenol	2.389	2.403	2.562	2.726	2.942	2.604	8.948	*
Aniline	1.947	1.854	1.998	2.012	2.383	2.039	9.903	
bis(-2-Chloroethyl)Ether	1.921	1.969	1.776	1.811	2.311	1.958	10.854	
2-Chlorophenol	1.483	1.535	1.529	1.617	1.616	1.560	3.682	
1,3-Dichlorobenzene	1.603	1.556	1.516	1.514	1.636	1.565	3.442	
1,4-Dichlorobenzene	1.662	1.706	1.542	1.820	1.776	1.701	6.353	*
Benzyl Alcohol	.942	.992	.978	1.126	1.198	1.047	10.458	
1,2-Dichlorobenzene	1.505	1.488	1.467	1.514	1.487	1.492	1.215	
2-Methylphenol	1.305	1.337	1.399	1.354	1.433	1.366	3.710	
bis(2-chloroisopropyl)Ether	2.173	2.169	1.932	2.071	3.398	2.349	25.328	
4-Methylphenol	1.443	1.541	1.491	1.479	1.672	1.525	5.866	
N-Nitroso-Di-n-Propylamine	1.329	1.513	1.348	1.559	1.955	1.580	16.466	* *
Hexachloroethane	.805	.862	.831	.917	.969	0.877	7.581	
Nitrobenzene	1.776	1.906	2.013	1.887	2.383	1.993	11.713	
Isophorone	.944	1.050	.964	.972	1.173	1.022	9.267	
Nitrophenol	.175	.190	.197	.198	.214	0.195	7.276	*
I-Dimethylphenol	.340	.366	.350	.359	.382	0.356	4.540	
bis(-2-Chloroethoxyl)Methane	.499	.580	.579	.618	.645	0.584	9.449	
Benzoic Acid	.092	.157	.195	.186	.207	0.167	27.619	
2,4-Dichlorophenol	.256	.282	.297	.295	.309	0.286	6.333	
1,2,4-Trichlorobenzene	.330	.322	.342	.344	.359	0.339	4.194	
Naphthalene	1.172	1.197	1.148	1.213	1.076	1.161	4.594	
4-Chloroaniline	.389	.410	.433	.433	.433	0.420	4.697	
Hexachlorobutadiene	.185	.189	.186	.197	.209	0.193	5.240	*
4-Chloro-3-Methylphenol	.347	.400	.372	.405	.436	0.392	8.625	*
2-Methylnaphthalene	.633	.662	.647	.642	.624	0.642	2.233	
Hexachlorocyclopentadiene	.138	.189	.221	.250	.278	0.215	25.325	* *
2,4,6-Trichlorophenol	.325	.364	.190	.390	.403	0.334	25.725	*
2,4,5-Trichlorophenol	.325	.364	.190	.390	.403	0.334	25.725	
2-Chloronaphthalene	1.305	1.317	1.329	1.346	1.409	1.340	3.084	
2-Nitroaniline	.394	.449	.477	.455	.649	0.485	19.999	
Dimethyl Phthalate	1.377	1.396	1.497	1.460	1.440	1.434	3.380	
Acenaphthylene	1.900	1.950	2.011	1.941	1.961	1.953	2.045	
3-Nitroaniline	.217	.254	.289	.317	.363	0.288	19.577	
Acenaphthene	1.278	1.300	1.300	1.327	1.252	1.291	2.161	*
2,4-Dinitrophenol	.041	.063	.093	.097	.096	0.078	31.762	* *
4-Nitrophenol	.177	.215	.237	.216	.228	0.214	10.678	* *
Dibenzofuran	1.559	1.650	1.676	1.706	1.725	1.663	3.911	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%D - Percent Relative Standard Deviation
* - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
5 - not detectable at 20ng

Initial Calibration Data
Semivolatile MSL Compounds
(Page 2)

Case No: URS
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : OWA MZ1
Calibration Date : 12/02/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		MI851202A21	MG851202A21	MK851202A21	MJ851202A21	MN851202A21			
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-Dinitrotoluene		.399	.497	.565	.578	.660	0.540	18.111	
2,6-Dinitrotoluene		.262	.289	.309	.320	.331	0.302	8.984	
Diethylphthalate		1.506	1.634	1.637	1.712	1.612	1.620	4.594	
4-Chlorophenyl-phenylether		.560	.593	.604	.631	.655	0.609	5.993	
Fluorene		1.252	1.326	1.346	1.377	1.431	1.346	4.905	
4-Nitroaniline		.209	.254	.247	.246	.301	0.251	13.058	
4,6-Dinitro-2-Methylphenol		.027	.073	.100	.098	.095	0.079	39.012	
N-Nitrosodiphenylamine(1)	(1)	.611	.615	.591	.601	.592	0.602	1.821	*
4-Bromophenyl-phenylether		.221	.222	.230	.244	.264	0.236	7.611	
Hexachlorobenzene		.284	.289	.286	.330	.342	0.306	8.978	
Pentachlorophenol		.079	.084	.095	.096	.095	0.090	8.530	*
Phenanthrene		1.167	1.173	1.195	1.198	1.214	1.189	1.618	
Anthracene		1.089	1.122	1.130	1.154	1.138	1.125	2.326	
Di-n-Butylphthalate		1.640	1.795	1.823	1.861	1.768	1.777	4.737	
Fluoranthene		1.050	1.125	1.117	1.202	1.220	1.143	6.056	*
Benzidine		.029	.004	.007	.012	.013	0.013*	73.830	* *
ene		1.848	1.583	1.678	1.735	1.709	1.711	5.590	
ylbenzylphthalate		.875	.907	.925	.934	.964	0.921	3.573	
3,3'-Dichlorobenzidine		.221	.235	.228	.232	.230	0.229	2.267	
Benzo(a)Anthracene		1.299	1.232	1.337	1.329	1.277	1.295	3.279	
bis(2-Ethylhexyl)Phthalate		1.565	1.537	1.595	1.543	1.483	1.549	2.896	
Chrysene		1.094	1.150	1.096	1.118	1.084	1.108	2.377	
Di-n-Octyl Phthalate		2.676	2.828	2.990	3.354	3.562	3.082	11.950	*
Benzo(b)Fluoranthene		1.493	1.476	1.424	1.504	1.599	1.499	4.255	
Benzo(k)Fluoranthene		1.156	1.246	1.372	1.432	1.350	1.312	8.330	
Benzo(a)Pyrene		1.198	1.260	1.243	1.302	1.272	1.255	3.070	*
Indeno(1,2,3-cd)Pyrene		1.301	1.437	1.414	1.380	1.290	1.364	4.655	
Dibenz(a,h)Anthracene		1.039	1.159	1.164	1.176	1.096	1.127	5.154	
Benzo(g,h,i)Perylene		1.026	1.148	1.108	1.095	1.020	1.079	5.095	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%D - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile HSL Compounds
(Page 3)

Case No: UES
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : OWA M21
Calibration Date : 12/02/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	M1651202A21	M6851202A21	MM851202A21	MJ851202A21	MM851202A21			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RT	%RSD	CCC * SPCC **
1,2,3,4-Tetrachlorobenzene	.993	.801	.881	.975	1.276	0.986	18.263	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
` - Percent Relative Standard Deviation
- Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile MSL Compounds
(Page 1)

: No: URS
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : OWA M22
Calibration Date : 11/27/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	KLB51127C22	MGB51127C22	MKB51127C22	MJB51127C22	MIB51127C22			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
N-Nitrosodimethylamine	.719	.691	.738	.823	.635	0.721	9.541	
Phenol	1.781	2.041	2.015	2.050	1.439	1.865	14.092	*
Aniline	1.561	1.994	1.737	2.054	1.296	1.729	18.087	
bis(-2-Chloroethyl)Ether	1.567	1.891	1.562	1.493	1.130	1.529	17.717	
2-Chlorophenol	1.685	1.631	1.625	1.695	1.350	1.597	8.883	
1,3-Dichlorobenzene	1.598	1.453	1.961	1.592	1.519	1.625	12.143	
1,4-Dichlorobenzene	1.727	1.939	2.166	2.002	1.463	1.860	14.607	*
Benzyl Alcohol	.951	.939	.923	.980	.979	0.954	2.606	
1,2-Dichlorobenzene	1.717	1.525	1.503	1.736	1.408	1.578	9.044	
2-Methylphenol	1.307	1.240	1.419	1.498	1.067	1.306	12.749	
bis(2-chloroisopropyl)Ether	2.523	2.378	2.744	2.558	2.029	2.446	10.922	
4-Methylphenol	1.339	1.588	1.617	1.540	1.287	1.474	10.217	
N-Nitroso-Di-n-Propylamine	1.204	1.096	1.219	1.349	.981	1.169	11.807	* *
" chloroethane	.842	.666	.713	.707	.636	0.713	11.057	
obenzene	2.075	1.573	1.795	1.665	1.622	1.745	11.571	
Isophorone	.830	.851	.856	.727	.853	0.823	6.683	
2-Nitrophenol	.197	.211	.214	.203	.198	0.205	3.672	*
2,4-Dimethylphenol	.313	.412	.390	.329	.359	0.361	11.479	
bis(-2-Chloroethoxy)Methane	.544	.590	.460	.395	.513	0.500	15.107	
Benzoic Acid	.188	.203	.230	.236	.246	0.221	10.923	
2,4-Dichlorophenol	.286	.332	.281	.261	.304	0.293	9.165	
1,2,4-Trichlorobenzene	.334	.381	.369	.310	.410	0.361	10.999	
Naphthalene	1.135	1.225	1.251	1.199	1.202	1.202	3.587	
4-Chloroaniline	.250	.436	.453	.439	.496	0.415	23.004	
Hexachlorobutadiene	.214	.187	.184	.197	.204	0.197	6.295	*
4-Chloro-3-Methylphenol	.389	.351	.405	.307	.351	0.361	10.561	*
2-Methylnaphthalene	.731	.685	.710	.641	.727	0.699	5.290	
Hexachlorocyclopentadiene	.270	.348	.360	.428	.452	0.372	19.341	* *
2,4,6-Trichlorophenol	.341	.371	.412	.432	.465	0.404	12.125	*
2,4,5-Trichlorophenol	.322	.389	.398	.433	.473	0.403	13.961	
2-Chloronaphthalene	1.307	1.662	1.350	1.647	1.461	1.485	11.076	
2-Nitroaniline	.397	.462	.433	.435	.485	0.432	12.106	
Dimethyl Phthalate	1.486	1.804	1.467	1.648	1.821	1.645	10.218	
Acenaphthylene	1.814	2.086	1.910	2.100	2.245	2.031	8.363	
3-Nitroaniline	.090	.199	.299	.368	.406	0.273	47.227	
Acenaphthene	1.224	1.702	1.482	1.687	1.574	1.535	12.694	*
2,4-Dinitrophenol	.093	.130	.127	.131	.153	0.127	16.886	* *
4-Nitrophenol	.253	.239	.250	.247	.309	0.259	11.193	* *
Dibenzofuran	1.920	2.073	1.968	1.948	2.268	2.036	6.975	

$_n$ Response Factor (subscript is the amount of Nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
5 - not detectable at 20ng

Initial Calibration Data
Semivolatile MSL Compounds
(Page 2)

Lab Name: URS
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : OWA M22
Calibration Date : 11/27/95

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID		MB51127C22	MB051127C22	MK051127C22	MJ851127C22	MI851127C22			
Compound		RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
2,4-Dinitrotoluene		.377	.409	.436	.411	.465	0.419	7.933	
2,6-Dinitrotoluene		.194	.269	.265	.299	.262	0.258	14.928	
Diethylphthalate		1.452	1.645	1.810	1.828	1.694	1.686	9.013	
4-Chlorophenyl-phenylether		.585	.615	.618	.638	.758	0.643	10.434	
Fluorene		1.426	1.673	1.356	1.563	1.639	1.531	8.916	
4-Nitroaniline		.149	.193	.301	.329	.347	0.263	33.051	
4,6-Dinitro-2-Methylphenol		.071	.081	.086	.102	.102	0.088	15.180	
N-Nitrosodiphenylamine(1)	(1)	.489	.544	.545	.496	.675	0.550	13.652	*
4-Bromophenyl-phenylether		.245	.196	.220	.228	.235	0.225	8.167	
Hexachlorobenzene		.351	.270	.319	.322	.341	0.321	9.726	
Pentachlorophenol		.082	.112	.122	.130	.146	0.118	20.067	*
Phenanthrene		1.285	1.088	1.107	1.238	1.327	1.209	8.840	
Anthracene		1.036	1.135	1.178	1.162	1.229	1.147	6.151	
Di-n-Butylphthalate		1.171	1.101	1.155	1.222	1.464	1.223	11.601	
oranthene		1.191	.975	1.020	.889	1.103	1.036	11.225	*
.nzidine		$	.012	.018	.013	.017	0.015*	21.495	* *
Pyrene		1.776	1.879	1.952	1.793	1.920	1.863	4.137	
Butylbenzylphthalate		.433	.503	.500	.532	.715	0.537	19.747	
3,3'-Dichlorobenzidine		.162	.150	.152	.207	.253	0.185	24.340	
Benzo(a)Anthracene		1.205	1.112	1.266	1.251	1.517	1.274	11.823	
bis(2-Ethylhexyl)Phthalate		.605	.775	.912	.966	1.108	0.873	21.943	
Chrysene		1.232	1.016	1.085	1.166	1.431	1.186	13.447	
Di-n-Octyl Phthalate		893	1.737	1.551	1.476	2.158	1.563	29.352	*
Benzo(b)Fluoranthene		1.199	1.291	1.396	1.485	1.749	1.422	14.726	
Benzo(k)Fluoranthene		1.084	1.267	1.766	1.353	1.729	1.440	20.663	
Benzo(a)Pyrene		.877	1.269	1.351	1.276	1.457	1.246	17.631	*
Indeno(1,2,3-cd)Pyrene		1.089	1.671	1.584	.963	1.668	1.399	24.709	
Dibenz(a,h)Anthracene		.750	1.196	1.265	1.274	1.289	1.155	19.857	
Benzo(g,h,i)Perylene		.989	1.342	1.434	1.415	1.580	1.352	16.323	

Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Initial Calibration Data
Semivolatile MSL Compounds
(Page 2)

Case No: UKS
Contractor: CompuChem Laboratories
Contract No. Platinum

Instrument ID : DWA M22
Calibration Date : 11/27/85

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	NL851127C22	NG851127C22	NH851127C22	NJ851127C22	NI851127C22			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC * SPCC **
1,2,3,4-Tetrachlorobenzene	.869	1.028	1.159	1.040	1.049	1.028	10.09%	

RF_{xx} - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
$ - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Volatile NSL Compounds

Lab No: UKS
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID: OWA #12

Calibration Date: 11/21/85
Time: 15:51
Laboratory ID: CU851121R12
Initial Calabration Date: 10/24/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Chloromethane	0.869	0.688	20.809		**
Bromomethane	1.297	1.206	6.972		
Vinyl Chloride	0.994	0.899	9.529	*	
Chloroethane	0.523	0.516	1.356		
Methylene Chloride	1.390	1.259	9.466		
Acetone	0.288	0.321	-11.703		
Carbon Disulfide	4.098	4.015	2.032		
1,1-Dichloroethene	1.387	1.283	7.507	*	
1,1-Dichloroethane	2.164	2.170	-0.263		**
Trans-1,2-Dichloroethene	1.426	1.290	9.502		
Chloroform	2.457	2.326	5.343	*	
1,2-Dichloroethane	1.399	1.349	3.567		
2-Butanone	0.030	0.041	-37.458		
1,1,1-Trichloroethane	0.391	0.356	8.911		
Carbon Tetrachloride	0.386	0.338	12.435		
Vinyl Acetate	0.495	0.564	-13.852		
Bromodichloromethane	0.512	0.473	7.543		
-Dichloropropane	0.390	0.407	-4.337	*	
s-1,3-Dichloropropene	0.231	0.221	4.282		
Trichloroethene	0.426	0.385	9.734		
Dibromochloromethane	0.421	0.385	8.507		
1,1,2-Trichloroethane	0.347	0.348	-0.259		
Benzene	0.799	0.836	-4.593		
cis-1,3-Dichloropropene	0.566	0.577	-2.014		
2-Chloroethylvinylether	0.173	0.026	85.112		
Bromoform	0.282	0.251*	10.945		**
4-Methyl-2-Pentanone	0.406	0.404	0.492		
2-Hexanone	0.257	0.252	2.253		
Tetrachloroethene	0.354	0.316	10.765		
1,1,2,2-Tetrachloroethane	0.629	0.666	-5.913		**
Toluene	0.650	0.611	7.140	*	
Chlorobenzene	0.889	0.829	6.741		**
Ethylbenzene	0.469	0.430	8.329	*	
Styrene	1.105	1.044	5.554		
TOLAL XYLENES	0.590	0.594	-0.694		

RF(50) - Response Factor from daily standard file 50 ug/l
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Volatile HSL Compounds

No: UAS
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : CMA 012

Calibration Date: 11/22/85
Time: 04:06
Laboratory ID : CT851122C12
Initial Calabration Date: 10/24/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Chloromethane	0.869	0.803	7.392		**
Bromomethane	1.297	1.168	9.888		
Vinyl Chloride	0.994	0.828	16.723	*	
Chloroethane	0.523	0.478	8.712		
Methylene Chloride	1.390	1.362	2.035		
Acetone	0.288	0.281	2.532		
Carbon Disulfide	4.098	4.193	-2.066		
1,1-Dichloroethene	1.387	1.422	-2.531	*	
1,1-Dichloroethane	2.164	2.385	-10.226		**
Trans-1,2-Dichloroethene	1.426	1.476	-3.499		
Chloroform	2.457	2.592	-5.506	*	
1,2-Dichloroethane	1.399	1.467	-4.897		
2-Butanone	0.030	0.035	-17.391		
1,1,1-Trichloroethane	0.391	0.387	1.024		
Carbon Tetrachloride	0.386	0.361	6.424		
Vinyl Acetate	0.495	0.533	-7.714		
Bromodichloromethane	0.512	0.509	0.547		
[illegible]chloropropane	0.390	0.434	-11.421	*	
[illegible]-1,3-Dichloropropene	0.231	0.219	5.276		
Trichloroethene	0.426	0.410	3.823		
Dibromochloromethane	0.421	0.406	3.493		
1,1,2-Trichloroethane	0.347	0.369	-6.318		
Benzene	0.799	0.896	-12.154		
cis-1,3-Dichloropropene	0.566	0.616	-8.925		
2-Chloroethylvinylether	0.173	0.027	84.189		
Bromoform	0.202	0.261*	7.380		**
4-Methyl-2-Pentanone	0.406	0.380	6.431		
2-Hexanone	0.257	0.247	4.118		
Tetrachloroethene	0.354	0.345	2.599		
1,1,2,2-Tetrachloroethane	0.629	0.675	-7.216		**
Toluene	0.639	0.669	-4.686	*	
Chlorobenzene	0.889	0.910	-2.363		**
Ethylbenzene	0.469	0.473	-0.745	*	
Styrene	1.105	1.034	6.441		
TOTAL XYLENES	0.590	0.595	-0.779		

RF(50) - Response Factor from daily standard file 50 ug/l
RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Volatile HSL Compounds

: No: URS
cractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : GWA #13

Calibration Date: 11/22/85
Time: 08:25
Laboratory ID : CS851122#1J
Initial Calabration Date: 11/20/85

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Chloromethane	0.769	0.354	53.964		**
Bromomethane	1.684	1.678	0.385		
Vinyl Chloride	1.391	1.112	20.018	*	
Chloroethane	0.768	0.741	3.580		
Methylene Chloride	0.984	1.050	-6.802		
Acetone	0.115	0.201	-74.956		
Carbon Disulfide	3.212	3.056	4.881		
1,1-Dichloroethene	1.166	1.141	2.169	*	
1,1-Dichloroethane	1.717	1.911	-11.335		**
Trans-1,2-Dichloroethene	1.222	1.231	-0.744		
Chloroform	2.091	2.328	-11.340	*	
1,2-Dichloroethane	1.100	1.348	-22.518		
2-Butanone	0.020	0.022	-11.734		
1,1,1-Trichloroethane	0.330	0.382	-15.561		
Carbon Tetrachloride	0.337	0.382	-13.475		
Vinyl Acetate	0.387	0.425	-9.757		
Bromodichloromethane	0.450	0.496	-10.237		
Dichloropropane	0.330	0.337	-2.213	*	
s-1,3-Dichloropropene	0.194	0.198	-1.697		
Trichloroethene	0.414	0.441	-6.568		
Dibromochloromethane	0.465	0.492	-5.787		
1,1,2-Trichloroethane	0.338	0.348	-2.962		
Benzene	0.806	0.795	1.290		
cis-1,3-Dichloropropene	0.570	0.592	-3.863		
2-Chloroethylvinylether	0.201	0.219	-9.050		
Bromoform	0.303	0.327	-7.959		**
4-Methyl-2-Pentanone	0.252	0.312	-23.957		
2-Hexanone	0.167	0.204	-22.175		
Tetrachloroethene	0.423	0.432	-1.983		
1,1,2,2-Tetrachloroethane	0.539	0.546	-1.224		**
Toluene	0.608	0.615	-1.267	*	
Chlorobenzene	0.929	0.960	-3.370		**
Ethylbenzene	0.421	0.440	-4.489	*	
Styrene	0.999	0.987	1.250		
TOLAL XYLENES	0.593	0.589	0.809		

RF(50) - Response Factor from daily standard file 50 ug/l
F - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile MSL Compounds
(Page 1)

Case No: UES
Contractor: CompuChem Laboratories
tract No: Platinum
.strument ID : OWA #21

Calibration Date: 12/04/85
Time: 18:32
Laboratory ID : MM851204D71
Initial Calabration Date: 12/02/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	1.586	0.909	42.722		
Phenol	2.604	1.972	24.266	*	
Aniline	2.039	1.498	26.502		
bis(-2-Chloroethyl)Ether	1.958	1.557	20.449		
2-Chlorophenol	1.560	1.369	12.250		
1,3-Dichlorobenzene	1.565	1.563	0.159		
1,4-Dichlorobenzene	1.701	1.722	-1.205	*	
Benzyl Alcohol	1.047	0.490	53.246		
1,2-Dichlorobenzene	1.492	1.543	-3.363		
2-Methylphenol	1.366	1.247	8.692		
bis(2-chloroisopropyl)Ether	2.349	1.458	37.939		
4-Methylphenol	1.525	1.278	16.183		
N-Nitroso-Di-n-Propylamine	1.540	1.047	32.034		**
Hexachloroethane	0.877	0.795	9.307		
Nitrobenzene	1.993	1.336	32.968		
Isophorone	1.022	0.680	33.460		
2-Nitrophenol	0.195	0.209	-6.977	*	
2,4-Dimethylphenol	0.358	0.323	9.743		
bis(-2-Chloroethoxy)Methane	0.584	0.426	27.054		
zoic Acid	0.167	0.100	40.526		
,-Dichlorophenol	0.286	0.307	-7.267		
1,2,4-Trichlorobenzene	0.339	0.385	-13.417		
Naphthalene	1.161	1.103	4.994		
4-Chloroaniline	0.420	0.418	0.285		
Hexachlorobutadiene	0.193	0.209	-8.182	*	
4-Chloro-3-Methylphenol	0.392	0.482	-22.959	*	
2-Methylnaphthalene	0.642	0.680	-5.954		
Hexachlorocyclopentadiene	0.215	0.338	-57.468		**
2,4,6-Trichlorophenol	0.334	0.404	-20.969	*	
2,4,5-Trichlorophenol	0.334	0.408	-22.165		
2-Chloronaphthalene	1.340	1.357	-1.253		
2-Nitroaniline	0.485	0.298	38.580		
Dimethyl Phthalate	1.434	1.413	1.450		
Acenaphthylene	1.953	1.881	3.661		
3-Nitroaniline	0.288	0.294	-2.257		
Acenaphthene	1.291	1.286	0.387	*	
2,4-Dinitrophenol	0.078	0.114	-46.163		**
4-Nitrophenol	0.214	0.196	8.768		**
Dibenzofuran	1.663	1.671	-0.493		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No: UHS
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : DNA M21

Calibration Date: 12/04/85
Time: 18:32
Laboratory ID : MM851204B2(
Initial Calabration Date: 12/02/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.340	0.346	35.932		
2,6-Dinitrotoluene		0.302	0.318	-5.196		
Diethylphthalate		1.620	1.454	10.264		
4-Chlorophenyl-phenylether		0.609	0.647	-6.327		
Fluorene		1.346	1.400	-4.010		
4-Nitroaniline		0.251	0.276	-9.864		
4,6-Dinitro-2-Methylphenol		0.079	0.090	-15.139		
N-Nitrosodiphenylamine(1)	(1)	0.602	0.630	-4.753	*	
4-Bromophenyl-phenylether		0.236	0.248	-4.828		
Hexachlorobenzene		0.306	0.303	1.045		
Pentachlorophenol		0.090	0.074	18.151	*	
Phenanthrene		1.189	1.171	1.505		
Anthracene		1.125	1.084	3.669		
Di-n-Butylphthalate		1.777	1.438	19.063		
Fluoranthene		1.143	1.033	9.600	*	
Benzidine		0.013	0.017*	-30.769		**
Pyrene		1.311	1.597	6.635		
Butylbenzylphthalate		0.921	0 746	18.952		
3,3'-Dichlorobenzidine		0.229	0.370	-61.256		
nzo(a)Anthracene		1.295	1.364	-5.336		
s(2-Ethylhexyl)Phthalate		1.549	1.315	15.053		
Chrysene		1.108	1.253	-13.028		
Di-n-Octyl Phthalate		3.082	2.756	10.584	*	
Benzo(b)Fluoranthene		1.499	1.315	12.279		
Benzo(k)Fluoranthene		1.312	1.315	-0.282		
Benzo(a)Pyrene		1.255	1.200	4.367	*	
Indeno(1,2,3-cd)Pyrene		1.364	1.304	4.398		
Dibenz(a,h)Anthracene		1.127	1.078	4.348		
Benzo(g,h,i)Perylene		1.079	1.003	7.069		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
- Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 3)

Case No: U.S.
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : OHR 02

Calibration Date: 12/04/85
Time: 18:32
Laboratory ID : MM851204I21
Initial Calabration Date: 12/02/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	0.986	0.737	25.78%		

RF(50) - Response factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

e No: URS
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : DWA #21

Calibration Date: 12/05/85
Time: 08:09
Laboratory ID : HGB51205A2I
Initial Calabration Date: 12/02/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	1.586	1.052	33.675		
Phenol	2.604	2.727	-4.718	*	
Aniline	2.039	0.956	53.126		
bis(-2-Chloroethyl)Ether	1.958	1.427	27.080		
2-Chlorophenol	1.560	1.326	14.994		
1,3-Dichlorobenzene	1.565	1.541	1.571		
1,4-Dichlorobenzene	1.701	1.641	3.532	*	
Benzyl Alcohol	1.047	0.622	40.605		
1,2-Dichlorobenzene	1.492	1.399	6.278		
2-Methylphenol	1.366	1.128	17.413		
bis(2-chloroisopropyl)Ether	2.349	1.349	42.580		
4-Methylphenol	1.525	1.169	23.344		
N-Nitroso-Di-n-Propylamine	1.540	0.924	40.009		**
Hexachloroethane	0.877	0.695	20.702		
Nitrobenzene	1.993	1.273	36.130		
Isophorone	1.022	0.708	30.691		
trophenol	0.195	0.217	-11.185	*	
Dimethylphenol	0.358	0.316	11.725		
bis(-2-Chloroethoxy)Methane	0.584	0.437	25.159		
Benzoic Acid	0.167	0.157	6.276		
2,4-Dichlorophenol	0.286	0.309	-7.826		
1,2,4-Trichlorobenzene	0.339	0.368	-8.640		
Naphthalene	1.161	1.157	0.378		
4-Chloroaniline	0.420	0.176	58.174		
Hexachlorobutadiene	0.193	0.222	-14.759	*	
4-Chloro-3-Methylphenol	0.392	0.297	24.311	*	
2-Methylnaphthalene	0.642	0.675	-5.175		
Hexachlorocyclopentadiene	0.215	0.169	21.499		**
2,4,6-Trichlorophenol	0.334	0.400	-19.653	*	
2,4,5-Trichlorophenol	0.334	0.400	-19.653		
2-Chloronaphthalene	1.340	1.277	4.715		
2-Nitroaniline	0.485	0.251	48.236		
Dimethyl Phthalate	1.434	1.469	-2.426		
Acenaphthylene	1.953	1.910	2.181		
3-Nitroaniline	0.288	0.079	72.559		
Acenaphthene	1.291	1.256	2.756	*	
2,4-Dinitrophenol	0.070	0.101	-28.772		**
4-Nitrophenol	0.214	0.204	4.664		**
Dibenzofuran	1.663	1.637	1.575		

)) - Response Factor from daily standard file at concentration indicated
Avg RT - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

e No: URS
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : CMA #21

Calibration Date: 12/05/85
Time: 08:09
Laboratory ID : MG851205A21
Initial Calabration Date: 12/02/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RF	RF(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.540	0.315	41.748		
2,6-Dinitrotoluene		0.302	0.293	3.144		
Diethylphthalate		1.620	1.588	1.999		
4-Chlorophenyl-phenylether		0.609	0.690	-13.410		
Fluorene		1.346	1.396	-3.691		
4-Nitroaniline		0.251	0.190	24.542		
4,6-Dinitro-2-Methylphenol		0.079	0.101	-28.917		
N-Nitrosodiphenylamine(1)	(1)	0.602	0.459	23.782	*	
4-Bromophenyl-phenylether		0.236	0.237	-0.465		
Hexachlorobenzene		0.306	0.309	-0.947		
Pentachlorophenol		0.090	0.105	-16.592	*	
Phenanthrene		1.189	1.165	2.026		
Anthracene		1.125	1.100	2.301		
Di-n-Butylphthalate		1.777	1.752	1.434		
Fluoranthene		1.143	1.191	-4.244	*	
Benzidine		0.013	0.019*	-45.384		**
[illegible]ene		1.711	1.683	1.642		
[illegible]ylbenzylphthalate		0.921	0.854	7.201		
3,3'-Dichlorobenzidine		0.229	0.176	23.254		
Benzo(a)Anthracene		1.295	1.331	-2.764		
bis(2-Ethylhexyl)Phthalate		1.549	1.455	6.051		
Chrysene		1.108	1.208	-9.004		
Di-n-Octyl Phthalate		3.082	2.516	18.346	*	
Benzo(b)Fluoranthene		1.499	1.497	0.186		
Benzo(k)Fluoranthene		1.312	1.131	13.747		
Benzo(a)Pyrene		1.255	1.223	2.494	*	
Indeno(1,2,3-cd)Pyrene		1.364	1.324	2.917		
Dibenz(a,h)Anthracene		1.127	1.078	4.304		
Benzo(g,h,i)Perylene		1.079	1.024	5.142		

(0) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 3)

e No: UK
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : OWA #21

Calibration Date: 12/05/85
Time: 08:09
Laboratory ID : MB851205A2I
Initial Calabration Date: 12/02/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	0.986	0.612	37.899		

'50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile NSL Compounds
(Page 1)

se No: URS
Contractor: CompuChem Laboratories
Contract No: Plat Wam
Instrument ID : OWA #22

Calibration Date: 12/06/85
Time: 13:19
Laboratory ID : MG851206A22
Initial Calabration Date: 11/27/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
N-Nitrosodimethylamine	0.721	1.088	-50.838		
Phenol	1.865	1.852	0.702	*	
Aniline	1.729	1.283	25.796		
bis(-2-Chloroethyl)Ether	1.529	1.550	-1.406		
2-Chlorophenol	1.597	1.535	3.913		
1,3-Dichlorobenzene	1.625	1.424	12.366		
1,4-Dichlorobenzene	1.860	1.733	6.812	*	
Benzyl Alcohol	0.954	0.467	51.068		
1,2-Dichlorobenzene	1.578	1.221	22.615		
2-Methylphenol	1.306	1.091	16.456		
bis(2-chloroisopropyl)Ether	2.446	2.623	-7.210		
4-Methylphenol	1.479	1.258	14.693		
N-Nitroso-Di-n-Propylamine	1.169	1.302	-11.351		**
Hexachloroethane	0 713	0.624	12.377		
Nitrobenzene	1.745	1.418	18.732		
Isophorone	0.823	0.892	-8.393		
"itrophenol	0.205	0.203	0.879	*	
-Dimethylphenol	0.361	0.339	6.102		
bis(-2-Chloroethoxy)Methane	0.500	0.462	7.596		
Benzoic Acid	0.221	0.190	13.955		
2,4-Dichlorophenol	0 293	0.286	2.490		
1,2,4-Trichlorobenzene	0 361	0.342	5.102		
Naphthalene	1.202	1.106	7.989		
4-Chloroaniline	0.413	0.161	61.267		
Hexachlorobutadiene	0.197	0.207	-5.225	*	
4-Chloro-3-Methylphenol	0.361	0.355	1.442	*	
2-Methylnaphthalene	0.699	0.639	8.573		
Hexachlorocyclopentadiene	0.372	0.214	42.395		**
2,4,6-Trichlorophenol	0.404	0.387	4.329	*	
2,4,5-Trichlorophenol	0.403	0.388	3.674		
2-Chloronaphthalene	1.485	1.345	9.426		
2-Nitroaniline	0.432	0.452	-4.555		
Dimethyl Phthalate	1.645	1.439	12.517		
Acenaphthylene	2.031	1.789	11.930		
3-Nitroaniline	0.273	0.069	74.642		
Acenaphthene	1.535	1.284	16.372	*	
2,4-Dinitrophenol	0.127	0.052	59.273		**
4-Nitrophenol	0.259	0.213	17.587		**
Dibenzofuran	2.036	1.604	21.218		

D) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Lab No: UKS
Contractor: CompuChem Laboratories
Contract No: 68-03-3029
Instrument ID : DWA #22

Calibration Date: 12/06/85
Time: 13:19
Laboratory ID : MS851206A22
Initial Calabration Date: 11/27/85

Minimum RT for SPCC is 0.050

Maximum %D for CCC is 25%

Compound		Avg RT	RT(50)	%D	CCC	SPCC
2,4-Dinitrotoluene		0.419	0.406	3.010		
2,6-Dinitrotoluene		0.258	0.248	3.880		
Diethylphthalate		1.686	1.552	7.936		
4-Chlorophenyl-phenylether		0.643	0.586	8.899		
Fluorene		1.531	1.289	15.824		
4-Nitroaniline		0.263	0.172	34.526		
4,6-Dinitro-2-Methylphenol		0.088	0.065	26.160		
N-Nitrosodiphenylamine(1)	(1)	0.550	0.459	16.536	*	
4-Bromophenyl-phenylether		0.225	0.230	-2.179		
Hexachlorobenzene		0.321	0.322	-0.561		
Pentachlorophenol		0.118	0.118	0.591	*	
Phenanthrene		1.209	1.155	4.499		
Anthracene		1.147	1.196	-4.299		
Di-n-Butylphthalate		1.223	1.556	-27.302		
Fluoranthene		1.036	1.114	-7.560	*	
Benzidine		0.015	0.018*	-20.666		**
[illegible]ene		1.863	1.693	9.120		
[illegible]ylbenzylphthalate		0.537	0.757	-41.129		
3,3'-Dichlorobenzidine		0.185	0.203	-9.626		
Benzo(a)Anthracene		1.274	1.232	3.311		
bis(2-Ethylhexyl)Phthalate		0.873	1.162	-33.046		
Chrysene		1.186	1.174	1.011		
Di-n-Octyl Phthalate		1.563	1.665	-6.520	*	
Benzo(b)Fluoranthene		1.422	1.267	10.874		
Benzo(k)Fluoranthene		1.440	1.267	12.000		
Benzo(a)Pyrene		1.246	1.189	4.542	*	
Indeno(1,2,3-cd)Pyrene		1.399	1.239	11.415		
Dibenz(a,h)Anthracene		1.155	1.019	11.776		
Benzo(g,h,i)Perylene		1.352	1.079	20.156		

0) - Response Factor from daily standard file at concentration indicated
Avg RT - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 3)

Case No: UBS
Contractor: CompuChem Laboratories
Contract No: Pittsburgh
Instrument ID : GWA M22

Calibration Date: 12/06/85
Time: 13:19
Laboratory ID : MG851206m22
Initial Calibration Date: 11/27/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
1,2,3,4-Tetrachlorobenzene	1.028	0.753	26.763		

50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

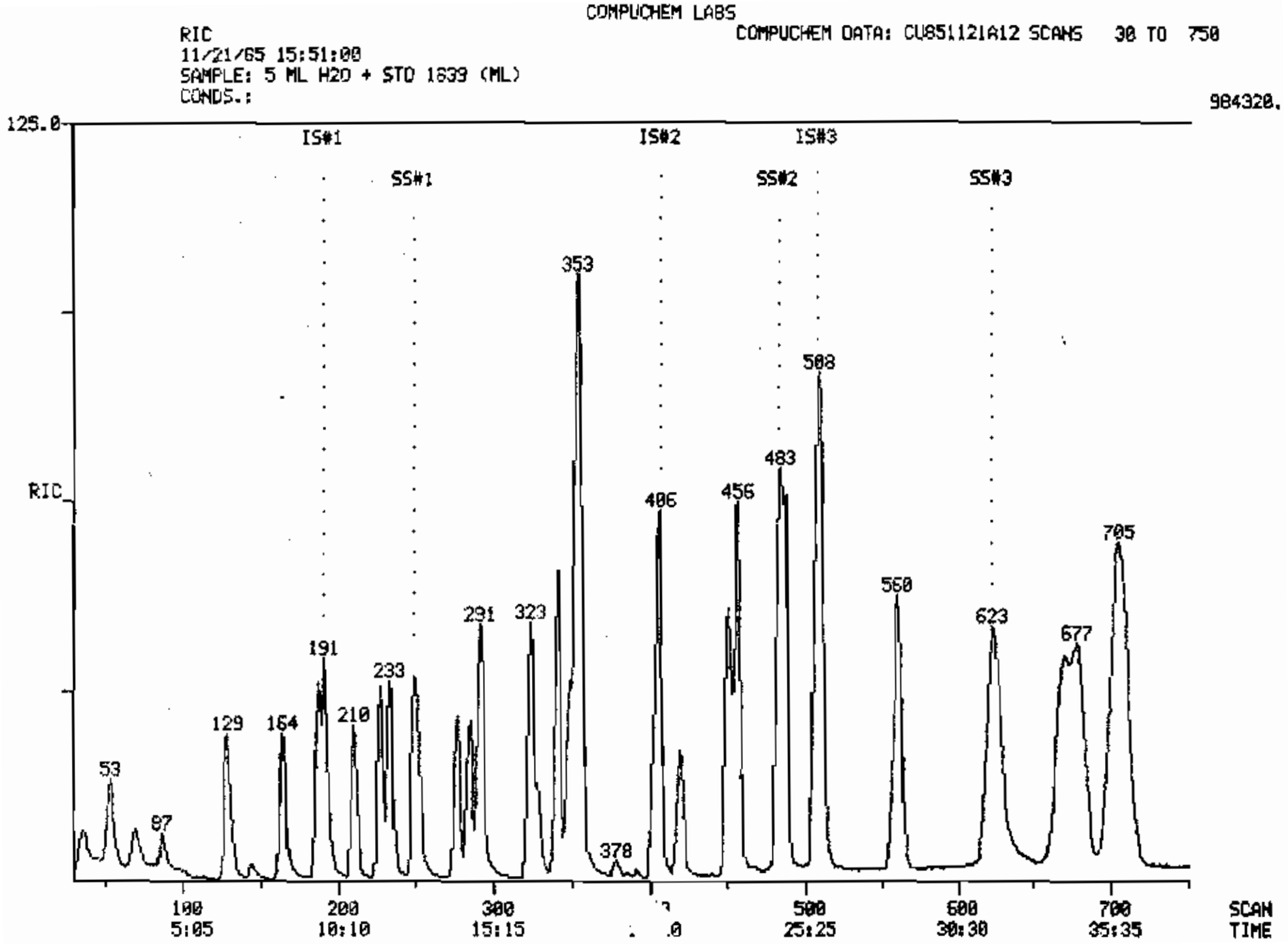
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

CASE# URS

COMPUCHEM CASE SUMMARY REFERENCE GUIDE

REVIEWER

raction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
Voa	BF851121A12	CU851121A12	68380	#D					
	"	"	68381	#E					
	"	"	68382	#C					
	BJ851122A13	CS851122A13	68392	#B1					
	BF851122C12	CT851122C12	68384	SS					
	"	"	68385	SS					
	"	"	68391	#F					
	"	"	68390	#B					


COMPUCHEM LABS
RIC
11/21/65 15:51:00
SAMPLE: 5 ML H2O + STD 1639 (ML)
CONDS.:
COMPUCHEM DATA: CU851121A12 SCANS 30 TO 750
984320.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
53
87
129
164
191
210
233
291
323
353
378
406
456
483
508
550
623
677
705
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CUB51121A12

TA: CUB51121A12.TI
/21/85 15:51:00
SAMPLE: 5 ML H2O + STD 1839 (ML)
CONDS.:
SUBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
*	206 CARBON TETRACHLORIDE
,	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

Sub 11/21/85

. .	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	191	9:43	1	1.000	A BB	175895.	50.000 UG/L	2.09
2	50	36	1:50	1	0.188	A BB	121087.	28.485 UG/L	1.19

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	53	2:42	1	0.277	A BB	212141.	36.907	UG/L	1.54
	62	69	3:30	1	0.361	A BB	158140.	32.604	UG/L	1.36
5	64	87	4:25	1	0.455	A BB	90821.	39.945	UG/L	1.67
6	84	129	6:33	1	0.675	A BB	221376.	55.903	UG/L	2.34
7	43	145	7:22	1	0.759	A BV	96389.	49.380	UG/L	2.06
8	76	164	8:20	1	0.859	A BB	706125.	48.387	UG/L	2.02
9	96	187	9:30	1	0.979	A BB	225581.	57.072	UG/L	2.39
10	63	210	10:40	1	1.099	A BB	381628.	57.488	UG/L	2.40
11	96	227	11:32	1	1.188	A BB	225980.	56.406	UG/L	2.36
12	83	233	11:51	1	1.220	A BV	409089.	57.149	UG/L	2.39
13	62	250	12:42	1	1.309	A BB	237258.	57.582	UG/L	2.41
14	114	406	20:38	14	1.000	A BB	743910.	50.000	UG/L	2.09
15	72	252	12:49	14	0.621	A BB	30540.	51.060	UG/L	2.14
16	97	277	14:05	14	0.682	A BV	264589.	57.259	UG/L	2.39
17	117	285	14:29	14	0.702	A VB	251414.	57.552	UG/L	2.41
18	43	291	14:48	14	0.717	A BB	419428.	53.834	UG/L	2.25
19	83	292	14:51	14	0.719	A VB	351950.	57.073	UG/L	2.39
20	63	323	16:25	14	0.796	A BV	302364.	58.277	UG/L	2.44
21	75	328	16:40	14	0.808	A BB	164592.	58.512	UG/L	2.45
22	130	340	17:17	14	0.837	A BV	286244.	56.782	UG/L	2.37
23	129	348	17:41	14	0.857	A BB	286404.	59.225	UG/L	2.48
24	97	352	17:54	14	0.867	A VB	258495.	57.079	UG/L	2.39
25	78	354	18:00	14	0.872	A BB	621630.	56.206	UG/L	2.35
26	75	354	18:00	14	0.872	A BB	429404.	58.059	UG/L	2.43
27	63	378	19:13	14	0.931	A BB	19192.	198.141	UG/L	8.29
28	173	402	20:26	14	0.990	A BB	187013.	59.585	UG/L	2.49
29	117	507	25:46	29	1.000	A BB	700032.	50.000	UG/L	2.09
	43	419	21:18	29	0.826	A BB	282676.	50.352	UG/L	2.11
31	43	452	22:59	29	0.892	A BV	176149.	48.227	UG/L	2.02
32	164	455	23:08	29	0.897	A BB	221038.	56.894	UG/L	2.38
33	83	450	22:52	29	0.888	A BB	466425.	56.766	UG/L	2.37
34	92	486	24:42	29	0.959	A BB	427854.	56.169	UG/L	2.35
35	112	509	25:52	29	1.004	A BB	580058.	56.125	UG/L	2.35
36	106	560	28:28	29	1.105	A BB	301240.	56.606	UG/L	2.37
37	104	668	33:57	29	1.318	A BB	730858.	48.939	UG/L	2.05
38	106	678	34:28	29	1.337	A BB	415899.	48.469	UG/L	2.03
39	106	705	35:50	29	1.391	A BB	807767.	98.987	UG/L	4.14
40	65	248	12:36	1	1.298	A BV	241638.	49.588	UG/L	2.07
41	95	623	31:40	29	1.229	A BB	556847.	48.663	UG/L	2.03
42	98	482	24:30	1	2.524	A BB	763148.	49.591	UG/L	2.07

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:47	1.03	10.000	0.02	28.48	50.00	0.688	1.208	0.57
3	2:42	1.00	10.000	0.03	36.91	50.00	1.206	1.634	0.74
4	3:30	1.00	10.000	0.04	32.60	50.00	0.899	1.379	0.65
5	4:22	1.01	10.000	0.05	39.95	50.00	0.516	0.646	0.80
6	6:30	1.01	5.000	0.14	55.90	50.00	1.259	1.126	1.12
7	7:19	1.01	10.000	0.08	49.38	50.00	0.321	0.325	0.99
8	8:20	1.00	5.000	0.17	48.39	50.00	4.014	4.148	0.97
9	9:30	1.00	5.000	0.20	57.07	50.00	1.282	1.124	1.14
10	10:40	1.00	5.000	0.22	57.49	50.00	2.170	1.887	1.15
	11:29	1.00	5.000	0.24	56.41	50.00	1.290	1.144	1.13
	11:51	1.00	5.000	0.24	57.15	50.00	2.326	2.035	1.14
13	12:42	1.00	5.000	0.26	57.58	50.00	1.349	1.171	1.15
14	20:00	1.03	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:49	1.00	10.000	0.06	51.06	50.00	0.041	0.040	1.02
6	14:02	1.00	5.000	0.14	57.26	50.00	0.356	0.311	1.15
7	14:26	1.00	5.000	0.14	57.55	50.00	0.338	0.294	1.15
18	14:44	1.00	10.000	0.07	53.80	50.00	0.564	0.524	1.08
19	14:48	1.00	5.000	0.14	57.07	50.00	0.473	0.414	1.14
20	16:25	1.00	5.000	0.16	58.28	50.00	0.406	0.349	1.17
21	16:37	1.00	5.000	0.16	58.51	50.00	0.221	0.189	1.17
22	17:17	1.00	5.000	0.17	56.78	50.00	0.385	0.339	1.14
23	17:38	1.00	5.000	0.17	59.23	50.00	0.385	0.325	1.18
24	17:51	1.00	5.000	0.17	57.08	50.00	0.347	0.304	1.14
25	17:57	1.00	5.000	0.17	56.21	50.00	0.836	0.743	1.12
26	17:57	1.00	5.000	0.17	58.06	50.00	0.577	0.497	1.16
27	19:10	1.00	10.000	0.09	198.14	50.00	0.026	0.007	3.96
28	20:26	1.00	5.000	0.20	59.58	50.00	0.251	0.211	1.19
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18	1.00	10.000	0.08	50.35	50.00	0.404	0.401	1.01
31	22:56	1.00	10.000	0.09	48.23	50.00	0.252	0.261	0.96
32	23:08	1.00	5.000	0.18	56.89	50.00	0.316	0.277	1.14
33	22:49	1.00	5.000	0.18	56.77	50.00	0.666	0.587	1.14
34	24:42	1.00	5.000	0.19	56.17	50.00	0.611	0.544	1.12
35	25:52	1.00	5.000	0.20	56.12	50.00	0.829	0.738	1.12
36	28:25	1.00	5.000	0.22	56.61	50.00	0.430	0.380	1.13
37	33:57	1.00	5.000	0.26	48.94	50.00	1.044	1.067	0.98
38	34:25	1.00	5.000	0.27	48.47	50.00	0.594	0.613	0.97
39	35:47	1.00	5.000	0.28	98.99	100.00	0.577	0.583	0.99
40	12:36	1.00	50.000	0.03	49.59	50.00	1.374	1.385	0.99
41	31:37	1.00	50.000	0.02	48.66	50.00	0.795	0.817	0.97
3	24:30	1.00	50.000	0.05	49.59	50.00	4.339	4.374	0.99

Internal Standard Area Monitor

Method: E237 Filename: CU851121A12 Date: 11/21/85
Ft Std: CTB51121A12 Time: 15:51

Compound	Peak Area Sample	Shift Std	%Diff	P/F
*234 BROMOCHLORDMETHANE (IS)	175894.	182090.	-2.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	766451.	774477.	-0.	Pass
*270 D5-CHLOROBENZENE (IS)	700031.	709950.	-0.	Pass

CompuChem Laboratories, Inc.
GC/MS Analysis Log

11/22/85

Initial Time of Tune 1244
Time Tune Expires 09:44
Shift(s) (A) ✓ (B) ✓ (C)
Date 11/21/85
Analysis Type 8237

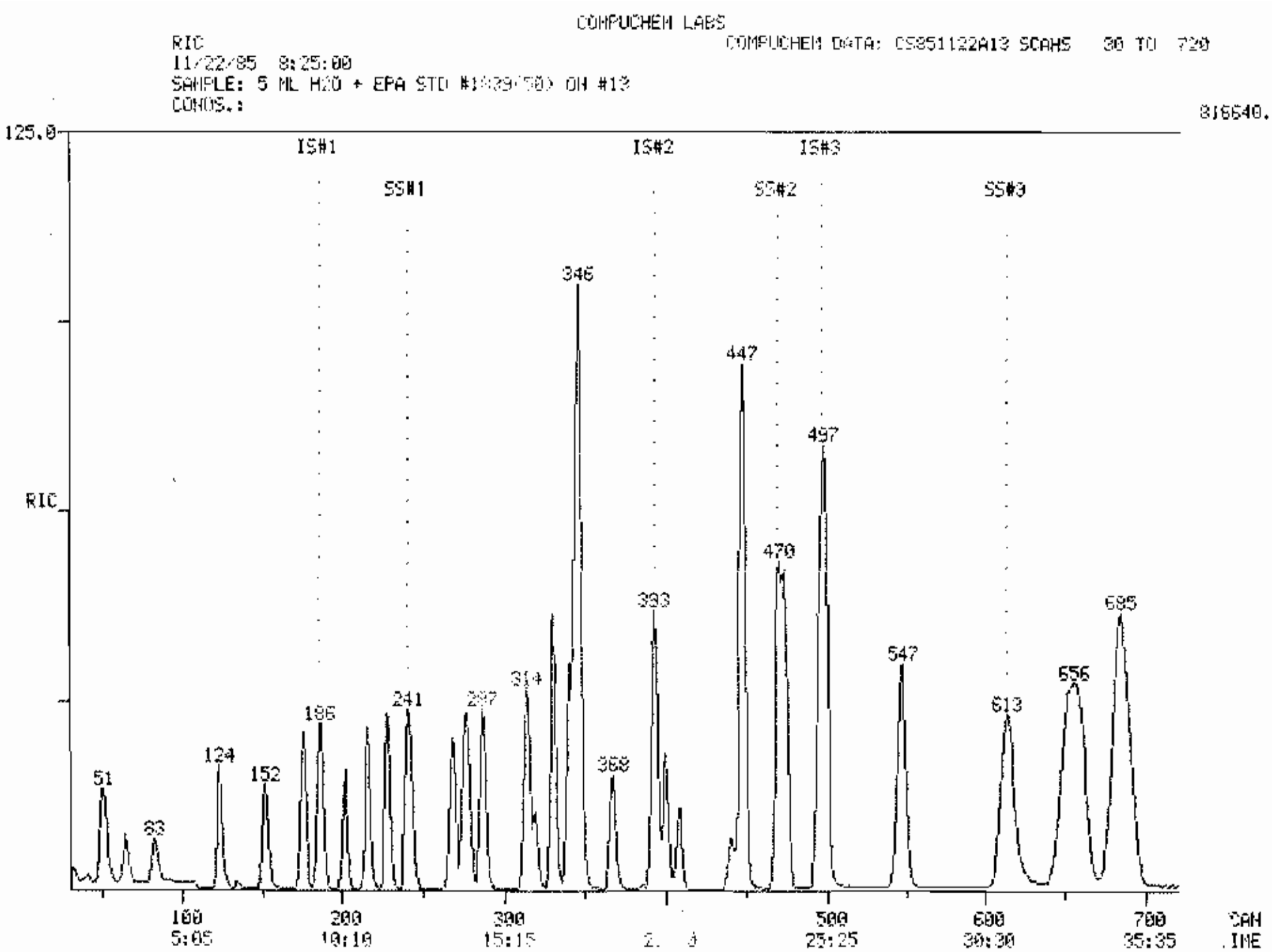
Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc
1		BFB5112IA12 (8260)		11/21/85	12:44			2ml	SM		124	11062
2	X	CS85112IA12		/ /	13:05	mid STD		5ml	SM		124	STD 1839 NO CURVE
3		CB85112IA12		/ /	14:00	Lost Blank		5ml	SM		124	
4	X	CTB5112IA12		/ /	15:01	mid STD		5ml	RM		124	STD 1839 (mid)
5		CW85112IA12		/ /	15:51	mid STD		5ml	RM		124	STD 1839
6		CN068226B12		/ /	16:59	AE289	5243	5ml	633		124	
7		CN068241B12		/ /	17:39	HB#1	5243	5ml	633		124	
8		CN068184 B12		/ /	18:26	AE212	5266	5ml	714		124	
9		CN068189B12		/ /	19:09	ATE300	5266	5ml	714		124	
10		CN068186 B12		/ /	20:42	SS#1	5266	5ml	890		124	orig = [illegible]
11		CN068187B12		/ /	21:32	SSH 2	5266	5ml	890		124	orig = [illegible]
12		CN068190B12		/ /	22:20	HB#1	5266	5ml	890		124	
13		CN06380 B12		/ /	23:05	#D	URS	5ml	890		124	
14		CN06A381B12		/ /	23:48	#E	URS	5ml	890		124	
15		CN069382C12		11/22/85	0:37	#1	URS	5ml	812		124	
16				/ /	:							
17				/ /	:							
18				/ /	:							
19				/ /	:							
20				/ /	:							
21				/ /	:							
22				/ /	:							
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

11/22/85

11/22/85

Press He..., Multiple Copies


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CS851122A13 SCANS 30 TO 720
11/22/85 8:25:00
SAMPLE: 5 ML H20 + EPA STD #1(@20/50) ON #13
CONDS.:
8)6640.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
RIC
346
447
497
470
393
547
556
585
613
314
297
241
186
124
152
51
93
368
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CS851122A13

DATA: CS851122A13.TI
11/22/85 8:25:00
SAMPLE: 5 ML H2O + EPA STD #1839(50) ON #13
  DS. :
SUBMITTED BY: #13 ANALYST: 633

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	218 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
[illegible]	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P-XYLENE
40	#258 D4-1,2-DICHLOROETHANE
41	#247 BROMOFLUOROBENZENE
42	#233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
	128	186	9:27	1	1.000	A BB	120914.	50.000 UG/L	2.33
	50	32	1:38	1	0.172	A BB	42827.	50.000 UG/L	2.33

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	51	2:36	1	0.274	A BV	202850.	50.000 UG/L	2.33
4	62	65	3:18	1	0.349	A BB	134490.	50.000 UG/L	2.33
5	64	83	4:13	1	0.446	A BB	89553.	50.000 UG/L	2.33
	84	124	6:18	1	0.667	A BB	127007.	50.000 UG/L	2.33
7	43	135	6:52	1	0.726	A BV	24242.	50.000 UG/L	2.33
8	76	152	7:44	1	0.817	A BB	369449.	50.000 UG/L	2.33
9	96	176	8:57	1	0.946	A BV	137943.	50.000 UG/L	2.33
10	63	202	10:16	1	1.086	A BV	231099.	50.000 UG/L	2.33
11	96	216	10:59	1	1.161	A BV	148887.	50.000 UG/L	2.33
12	83	228	11:35	1	1.226	A BV	281479.	50.000 UG/L	2.33
13	62	243	12:21	1	1.306	A BB	162954.	50.000 UG/L	2.33
14	114	393	19:59	14	1.000	A BB	533930.	50.000 UG/L	2.33
15	72	240	12:12	14	0.611	A BB	11694.	50.000 UG/L	2.33
16	97	268	13:37	14	0.682	A BB	203815.	50.000 UG/L	2.33
17	117	276	14:02	14	0.702	A VB	204129.	50.000 UG/L	2.33
18	43	279	14:11	14	0.710	A BB	227053.	50.000 UG/L	2.33
19	83	287	14:35	14	0.730	A BB	265056.	50.000 UG/L	2.33
20	63	314	15:58	14	0.799	A BB	179998.	50.000 UG/L	2.33
21	75	320	16:16	14	0.814	A BB	105580.	50.000 UG/L	2.33
22	130	331	16:50	14	0.842	A BV	235833.	50.000 UG/L	2.33
23	129	344	17:29	14	0.875	A BB	262555.	50.000 UG/L	2.33
24	97	346	17:35	14	0.880	A BB	185568.	50.000 UG/L	2.33
25	78	340	17:17	14	0.865	A BV	424694.	50.000 UG/L	2.33
26	75	346	17:35	14	0.880	A BV	315841.	50.000 UG/L	2.33
27	63	368	18:42	14	0.936	A BB	117075.	50.000 UG/L	2.33
28	173	400	20:20	14	1.018	A BB	174546.	50.000 UG/L	2.33
29	117	496	25:13	29	1.000	A BV	501337.	50.000 UG/L	2.33
30	43	409	20:47	29	0.825	A BV	156426.	50.000 UG/L	2.33
31	43	441	22:25	29	0.889	A BV	102459.	50.000 UG/L	2.33
	164	447	22:43	29	0.901	A BB	216489.	50.000 UG/L	2.33
33	83	447	22:43	29	0.901	A BV	273540.	50.000 UG/L	2.33
34	92	473	24:03	29	0.954	A BB	308419.	50.000 UG/L	2.33
35	112	498	25:19	29	1.004	A BV	431271.	50.000 UG/L	2.33
36	106	546	27:45	29	1.101	A BB	220550.	50.000 UG/L	2.33
37	104	651	33:06	29	1.312	A BB	494703.	50.000 UG/L	2.33
38	106	658	33:27	29	1.327	A BB	295049.	50.000 UG/L	2.33
39	106	685	34:49	29	1.381	A BB	572744.	100.001 UG/L	4.65
40	65	241	12:15	1	1.296	A BB	153361.	50.000 UG/L	2.33
41	95	613	31:10	29	1.236	A BB	396859.	50.000 UG/L	2.33
42	98	469	23:50	1	2.522	A BB	510252.	50.000 UG/L	2.33

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:27	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38	1.00	10.000	0.02	50.00	50.00	0.354	0.354	1.00
3	2:36	1.00	10.000	0.03	50.00	50.00	1.678	1.678	1.00
4	3:18	1.00	10.000	0.03	50.00	50.00	1.112	1.112	1.00
5	4:13	1.00	10.000	0.04	50.00	50.00	0.741	0.741	1.00
6	6:18	1.00	5.000	0.13	50.00	50.00	1.050	1.050	1.00
7	6:52	1.00	10.000	0.07	50.00	50.00	0.200	0.200	1.00
8	7:44	1.00	5.000	0.16	50.00	50.00	3.055	3.055	1.00
9	8:57	1.00	5.000	0.19	50.00	50.00	1.141	1.141	1.00
10	10:16	1.00	5.000	0.22	50.00	50.00	1.911	1.911	1.00
11	10:59	1.00	5.000	0.23	50.00	50.00	1.231	1.231	1.00
12	11:35	1.00	5.000	0.25	50.00	50.00	2.328	2.328	1.00
	12:21	1.00	5.000	0.26	50.00	50.00	1.348	1.348	1.00
	19:59	1.00	5.000	0.30	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:12	1.00	10.000	0.06	50.00	50.00	0.022	0.022	1.00
16	13:37	1.00	5.000	0.14	50.00	50.00	0.382	0.382	1.00
17	14:02	1.00	5.000	0.14	50.00	50.00	0.382	0.382	1.00
	14:11	1.00	10.000	0.07	50.00	50.00	0.425	0.425	1.00
19	14:35	1.00	5.000	0.15	50.00	50.00	0.496	0.496	1.00
20	15:58	1.00	5.000	0.16	50.00	50.00	0.337	0.337	1.00
21	16:16	1.00	5.000	0.16	50.00	50.00	0.198	0.198	1.00
22	16:50	1.00	5.000	0.17	50.00	50.00	0.441	0.441	1.00
23	17:29	1.00	5.000	0.18	50.00	50.00	0.492	0.492	1.00
24	17:35	1.00	5.000	0.18	50.00	50.00	0.348	0.348	1.00
25	17:17	1.00	5.000	0.17	50.00	50.00	0.795	0.795	1.00
26	17:35	1.00	5.000	0.18	50.00	50.00	0.592	0.592	1.00
27	18:42	1.00	10.000	0.09	50.00	50.00	0.219	0.219	1.00
28	20:20	1.00	5.000	0.30	50.00	50.00	0.327	0.327	1.00
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47	1.00	10.000	0.08	50.00	50.00	0.312	0.312	1.00
31	22:25	1.00	10.000	0.09	50.00	50.00	0.204	0.204	1.00
32	22:43	1.00	5.000	0.18	50.00	50.00	0.432	0.432	1.00
33	22:43	1.00	5.000	0.18	50.00	50.00	0.546	0.546	1.00
34	24:03	1.00	5.000	0.19	50.00	50.00	0.615	0.615	1.00
35	25:19	1.00	5.000	0.20	50.00	50.00	0.960	0.960	1.00
36	27:45	1.00	5.000	0.22	50.00	50.00	0.440	0.440	1.00
37	33:06	1.00	5.000	0.26	50.00	50.00	0.987	0.987	1.00
38	33:27	1.00	5.000	0.27	50.00	50.00	0.589	0.589	1.00
39	34:49	1.00	5.000	0.28	100.00	100.00	0.571	0.571	1.00
40	12:15	1.00	10.000	0.13	50.00	50.00	1.268	1.268	1.00
41	31:10	1.00	10.000	0.12	50.00	50.00	0.792	0.792	1.00
42	23:50	1.00	10.000	0.25	50.00	50.00	4.220	4.220	1.00

METHOD: E237 FILENAME: CSB51122A13 DATE: 11/22/85
SHIFT STD: CT851122C13 TIME: 8:25

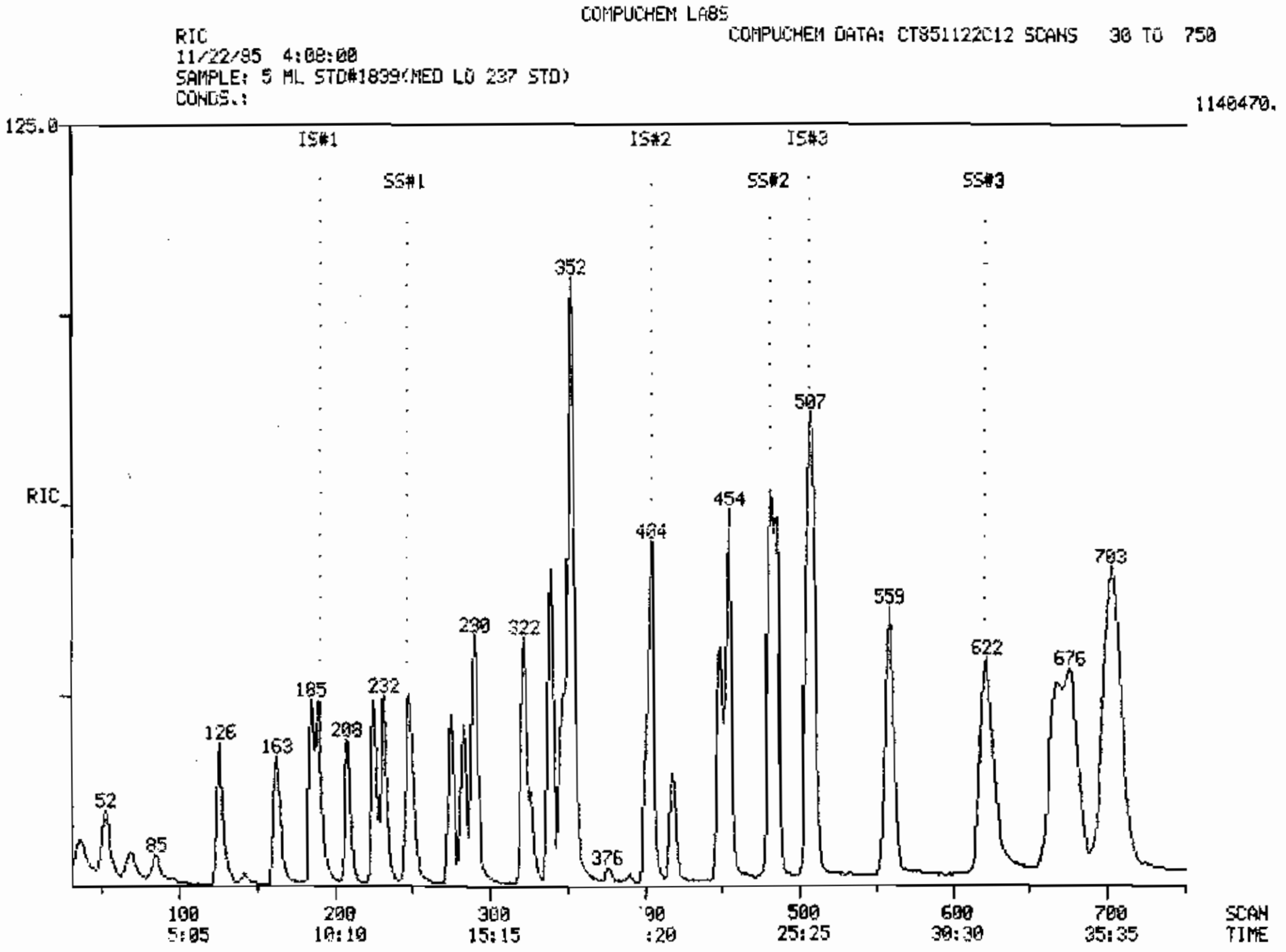
COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS)	120913.	125195.	-2.	PASS
*248 1,4 DIFLUOROBENZENE (IS)	533929.	539444	-0	PASS
*270 DS-CHLOROBENZENE (IS)	501036.	499385.	0.	PASS

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 8:08 Shift(s) (A) ✓ (B) ✓ (C) ✓
Time Tune Expires ~~8:08~~ 20:08 Date 11/22/85
Analysis Type 624

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1	X	BF851122C13		11/22/85	:			2ml	812		133	16120 methanol
2	X	BG851122C13		/ /	:			2ml	812		133	16120
3	X	BH851122C13		/ /	:			2ml	812		133	16120
4	X	BI851122C13		/ /	7:51			2ml	812		133	16120
5		BJ851122C13		/ /	8:08			5ml	812		133	16120 OK
6		CS851122A13		/ /	8:25			5ml	633		133	
7		CB851122A13		/ /	9:12			5ml	891		133	
8		CN068392A13		/ /	10:01	HMI	URS	5ml	891		133	
9		CN068274A13		/ /	11:02	20627	5234	5ml	891		133	
10		CN066190A13		/ /	12:01	P.E.		5ml	633		133	
11		CN068287A13		/ /	12:49	20628	5234 5252	1ml	577		133	
12		CN068288A13		/ /	13:30	20629	5234	5ml	633		133	
13		CN068283A13		/ /	14:17	QSS	5234	1ml	rm		133	SS & 6P290
14		CN068284A13		/ /	15:05	SS	5234	1ml	rm		133	
15		CN068295A13		/ /	15:52	Q0634	5234	1ml	rm		133	
16	X	CN068438B13		/ /	17:03	Q0635	5234 5252	5ml	714		133	Alc 35ppm (ow)
17		CN068439B13		/ /	18:01	Q0636	5234 5252	5ml	890		133	[redacted]
18				/ /	:		backed up soft	tape	changed			[redacted]
19				/ /	:							
20				/ /	:							
21				/ /	:							
22				/ /	:							
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							


COMPUCHEM LA8S
RIC
COMPUCHEM DATA: CT851122C12 SCANS 30 TO 750
11/22/85 4:08:00
SAMPLE: 5 ML STD#1839(MED LO 237 STD)
CONDS.:
1140470.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
RIC
52
85
126
163
185
200
232
230
322
352
376
404
454
507
559
622
676
703
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CT851122C12

DATA: CT851122C12.TI
'22/85 4:08:00
SAMPLE: 5 ML STD#1839(MED LO 237 STD)
CONDS. :
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	#248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	#270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	#258 D4-1,2-DICHLOROETHANE
41	#247 BROMOFLUOROBENZENE
42	#233 D8-TOLUENE

11/22/85

	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	190	9:39	1	1.000	A BB	178445.	50.000 UG/L	2.42
2	50	35	1:47	1	0.184	A BB	143337.	25.510 UG/L	1.24

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	52	2:39	1	0.274	A BB	208480.	32.727 UG/L	1.58
4	62	68	3:27	1	0.358	A BB	147685.	28.838 UG/L	1.40
	64	85	4:19	1	0.447	A BB	85264.	32.445 UG/L	1.57
6	84	126	6:24	1	0.663	A BB	243025.	51.455 UG/L	2.49
7	43	142	7:13	1	0.747	A BB	50150.	51.722 UG/L	2.50
8	76	163	8:17	1	0.858	A BB	746352.	53.127 UG/L	2.57
9	96	185	9:24	1	0.974	A BV	253697.	50.669 UG/L	2.45
10	63	208	10:34	1	1.095	A BB	425635.	50.990 UG/L	2.47
11	96	225	11:26	1	1.184	A BB	263356.	51.118 UG/L	2.48
12	83	232	11:48	1	1.221	A BB	462604.	50.652 UG/L	2.45
13	62	249	12:39	1	1.311	A BB	261835.	50.335 UG/L	2.44
14	114	404	20:32	14	1.000	A BB	793165.	50.000 UG/L	2.42
15	72	251	12:46	14	0.621	A BV	27829.	50.881 UG/L	2.46
16	97	275	13:59	14	0.681	A BB	306578.	49.454 UG/L	2.39
17	117	283	14:23	14	0.700	A VV	286468.	49.250 UG/L	2.38
18	43	289	14:41	14	0.715	A BB	423071.	52.394 UG/L	2.54
19	83	290	14:44	14	0.718	A BB	403628.	48.315 UG/L	2.34
20	63	322	16:22	14	0.797	A BV	344292.	51.086 UG/L	2.47
21	75	327	16:37	14	0.809	A VB	173699.	46.136 UG/L	2.23
22	130	339	17:14	14	0.839	A BV	325194.	48.399 UG/L	2.34
23	129	346	17:35	14	0.856	A BB	322097.	49.333 UG/L	2.39
24	97	350	17:47	14	0.866	A VB	292266.	50.267 UG/L	2.43
25	78	353	17:57	14	0.874	A BB	710693.	49.368 UG/L	2.39
26	75	352	17:54	14	0.871	A BB	488818.	49.606 UG/L	2.40
27	63	376	19:07	14	0.931	A BB	21721.	26.432 UG/L	1.28
28	173	401	20:23	14	0.993	A BV	206969.	48.835 UG/L	2.36
29	117	505	25:40	29	1.000	A BB	725859.	50.000 UG/L	2.42
30	43	418	21:15	29	0.828	A BB	275590.	53.775 UG/L	2.60
[illegible]	43	451	22:56	29	0.893	A VV	179115.	52.933 UG/L	2.56
[illegible]	164	454	23:05	29	0.899	A BB	250207.	49.082 UG/L	2.38
33	83	448	22:46	29	0.887	A BB	489626.	48.913 UG/L	2.37
34	92	485	24:39	29	0.960	A BV	485845.	49.417 UG/L	2.39
35	112	508	25:49	29	1.006	A BV	660192.	49.814 UG/L	2.41
36	106	558	28:22	29	1.105	A BB	343253.	50.000 UG/L	2.42
37	104	666	33:51	29	1.319	A BB	750664.	50.807 UG/L	2.46
38	106	676	34:22	29	1.339	A BB	431619.	50.498 UG/L	2.44
39	106	703	35:44	29	1.392	A BB	839312.	101.652 UG/L	4.92
40	65	247	12:33	1	1.300	A BV	258517.	52.500 UG/L	2.54
41	95	621	31:34	29	1.230	A BB	607319.	52.228 UG/L	2.53
42	98	481	24:27	1	2.532	A BB	833387.	54.404 UG/L	2.63

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:33	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:38	1.09	10.000	0.02	25.51	50.00	0.803	1.574	0.51
3	2:26	1.08	10.000	0.03	32.73	50.00	1.168	1.785	0.65
4	3:12	1.08	10.000	0.04	28.84	50.00	0.828	1.435	0.58
5	4:04	1.06	10.000	0.04	32.45	50.00	0.478	0.736	0.65
6	6:12	1.03	5.000	0.13	51.46	50.00	1.362	1.323	1.03
7	7:04	1.02	10.000	0.07	51.72	50.00	0.281	0.272	1.03
8	8:08	1.02	5.000	0.17	53.13	50.00	4.183	3.936	1.06
9	9:18	1.01	5.000	0.19	50.67	50.00	1.422	1.403	1.01
10	10:31	1.00	5.000	0.22	50.99	50.00	2.385	2.339	1.02
11	11:23	1.00	5.000	0.24	51.12	50.00	1.476	1.444	1.02
12	11:45	1.00	5.000	0.24	50.65	50.00	2.592	2.559	1.01
13	2:36	1.00	5.000	0.26	50.33	50.00	1.467	1.458	1.01
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:42	1.00	10.000	0.06	50.88	50.00	0.035	0.034	1.02
	13:56	1.00	5.000	0.14	49.45	50.00	0.387	0.391	0.99
17	14:20	1.00	5.000	0.14	49.25	50.00	0.361	0.367	0.98
18	14:38	1.00	10.000	0.07	52.39	50.00	0.533	0.509	1.05
19	14:44	1.00	5.000	0.14	48.32	50.00	0.509	0.527	0.97
20	16:19	1.00	5.000	0.16	51.09	50.00	0.434	0.425	1.02
21	16:34	1.00	5.000	0.16	46.14	50.00	0.219	0.237	0.92
22	17:11	1.00	5.000	0.17	48.40	50.00	0.410	0.424	0.97
23	17:35	1.00	5.000	0.17	49.33	50.00	0.406	0.412	0.99
24	17:47	1.00	5.000	0.17	50.27	50.00	0.368	0.367	1.01
25	17:54	1.00	5.000	0.17	49.37	50.00	0.896	0.907	0.99
26	17:54	1.00	5.000	0.17	49.61	50.00	0.616	0.621	0.99
27	19:07	1.00	10.000	0.09	26.43	50.00	0.027	0.052	0.53
28	20:23	1.00	5.000	0.20	48.84	50.00	0.261	0.267	0.98
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15	1.00	10.000	0.08	53.78	50.00	0.380	0.353	1.08
31	22:52	1.00	10.000	0.09	52.93	50.00	0.247	0.233	1.06
32	23:05	1.00	5.000	0.18	49.08	50.00	0.345	0.351	0.98
33	22:46	1.00	5.000	0.18	48.91	50.00	0.675	0.690	0.98
34	24:39	1.00	5.000	0.19	49.42	50.00	0.669	0.677	0.99
35	25:49	1.00	5.000	0.20	49.81	50.00	0.910	0.913	1.00
36	28:22	1.00	5.000	0.22	50.00	50.00	0.473	0.473	1.00
37	33:51	1.00	5.000	0.26	50.81	50.00	1.034	1.018	1.02
38	34:22	1.00	5.000	0.27	50.50	50.00	0.595	0.589	1.01
39	35:41	1.00	5.000	0.28	101.65	100.00	0.578	0.569	1.02
40	12:30	1.00	50.000	0.03	52.50	50.00	1.449	1.380	1.05
41	31:34	1.00	50.000	0.02	52.23	50.00	0.837	0.801	1.04
	24:27	1.00	50.000	0.05	54.40	50.00	4.670	4.292	1.09

Internal Standard Area Monitor

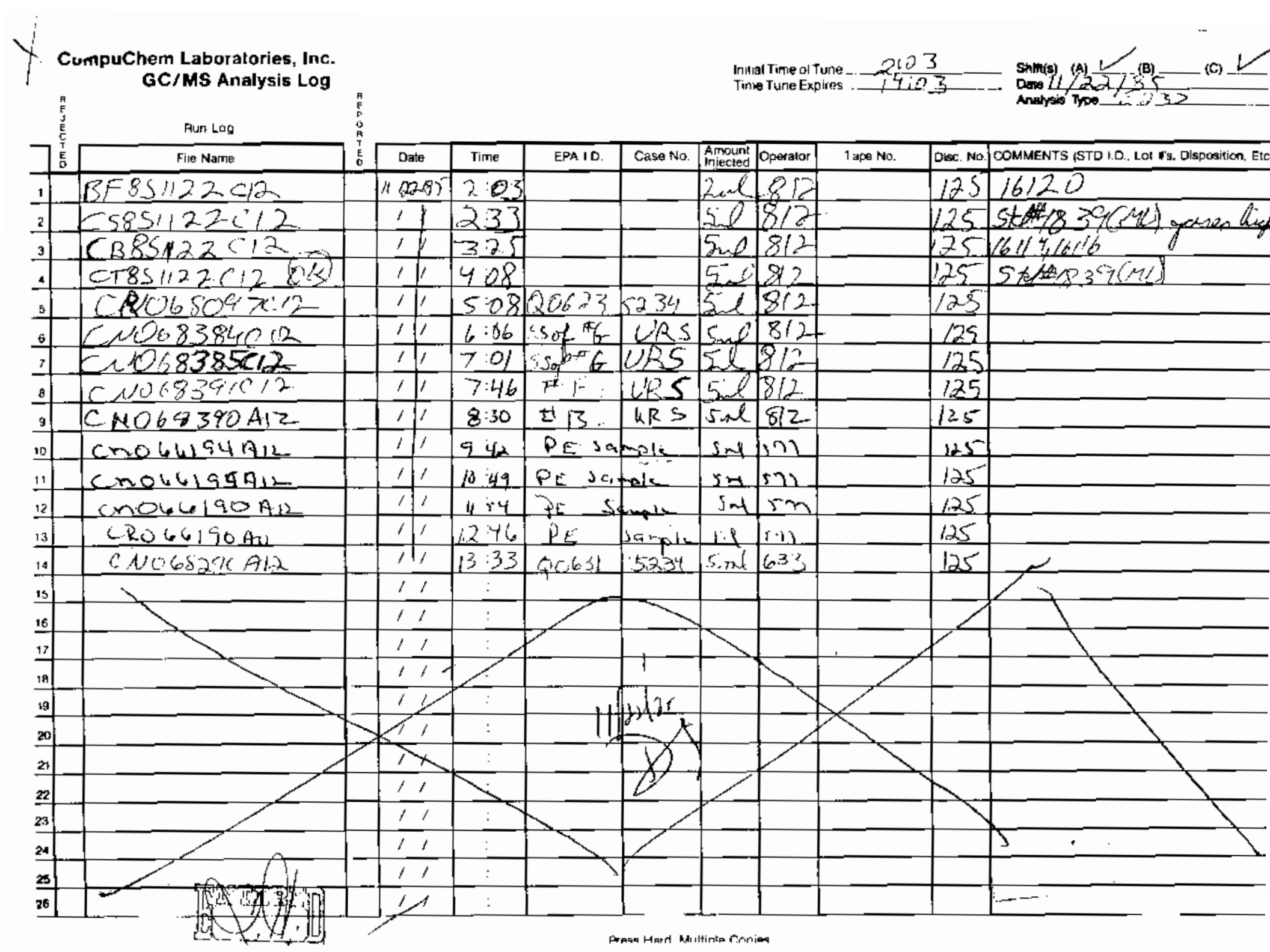
Method: E237 Filename: CT851122C12 Date: 11/22/85
Shift Std: CS851122C12 Time: 4:08

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	178445.	209412.	-14.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	793164.	903343.	-11.	Pass
*270 D5-CHLOROBENZENE (IS)	725858.	824476.	-11.	Pass

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 2103 Shift(s) (A) ✓ (B) ____ (C) ✓
Time Tune Expires 1403 Date 11/22/85
Analysis Type 8032

	REJECTED	Run Log File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc
1		BFBS1122C12		11/22/85	2:03			2ml	812		125	16120
2		CSBS1122C12		11	2:33			5ml	812		125	Std#18 39(ML) yarn lig
3		CBBS1122C12		11	3:25			5ml	812		125	16117,16116
4		CTBS1122C12 (DL)		11	4:08			5ml	812		125	Std#18 39(ML)
5		CRO6509C12		11	5:08	Q0623	5234	5ml	812		125	
6		CN06838C12		11	6:06	Soil #6	URS	5ml	812		125	
7		CN06838SC12		11	7:01	Soil #6	URS	5ml	812		125	
8		CN06839C12		11	7:46	" F	URS	5ml	812		125	
9		CN06839DA12		11	8:30	" B	URS	5ml	812		125	
10		CN06L94A12		11	9:42	PE Sample		5ml	577		125	
11		CN06L99A12		11	10:49	PE Sample		5ml	577		125	
12		CN06L90A12		11	11:54	PE Sample		5ml	577		125	
13		CR06L90A12		11	12:46	PE	Sample	1.0	577		125	
14		CN06829C A12		11	13:33	QC631	5234	5.0ml	633		125	
15				11	:							
16				11	:							
17				11	:							
18				11	:							
19				11	:							
20				11	:							
21				11	:							
22				11	:							
23				11	:							
24				11	:							
25				11	:							
26				11	:							



Press Hard. Multiple Copies

EPA CASE# ULS COMPUCHEM CASE SUMMARY REFERENCE GUIDE REVIEWER

fraction	associated tune	associated shift std	CC #	EPA SMO#	Analysis Date/Name	Voa Inst. blnk	Extract. Date	Assoc. Blk.	Comment
Voa	DF851204621	HH851204B21	68827	BL					
	"	"	68387	SS					
	"	"	68388	SS					
	"	"	68381	#E					
	"	"	68380	#D					
	"	"	68382	#C					
	"	"	68390	#B					
	DH851205C21	HG851205A21	68391	#F					
	DH851206A22	HG851206A22	68388	SS					
	"	"	68387	SS					

COMPUCHEM LABS

RIC

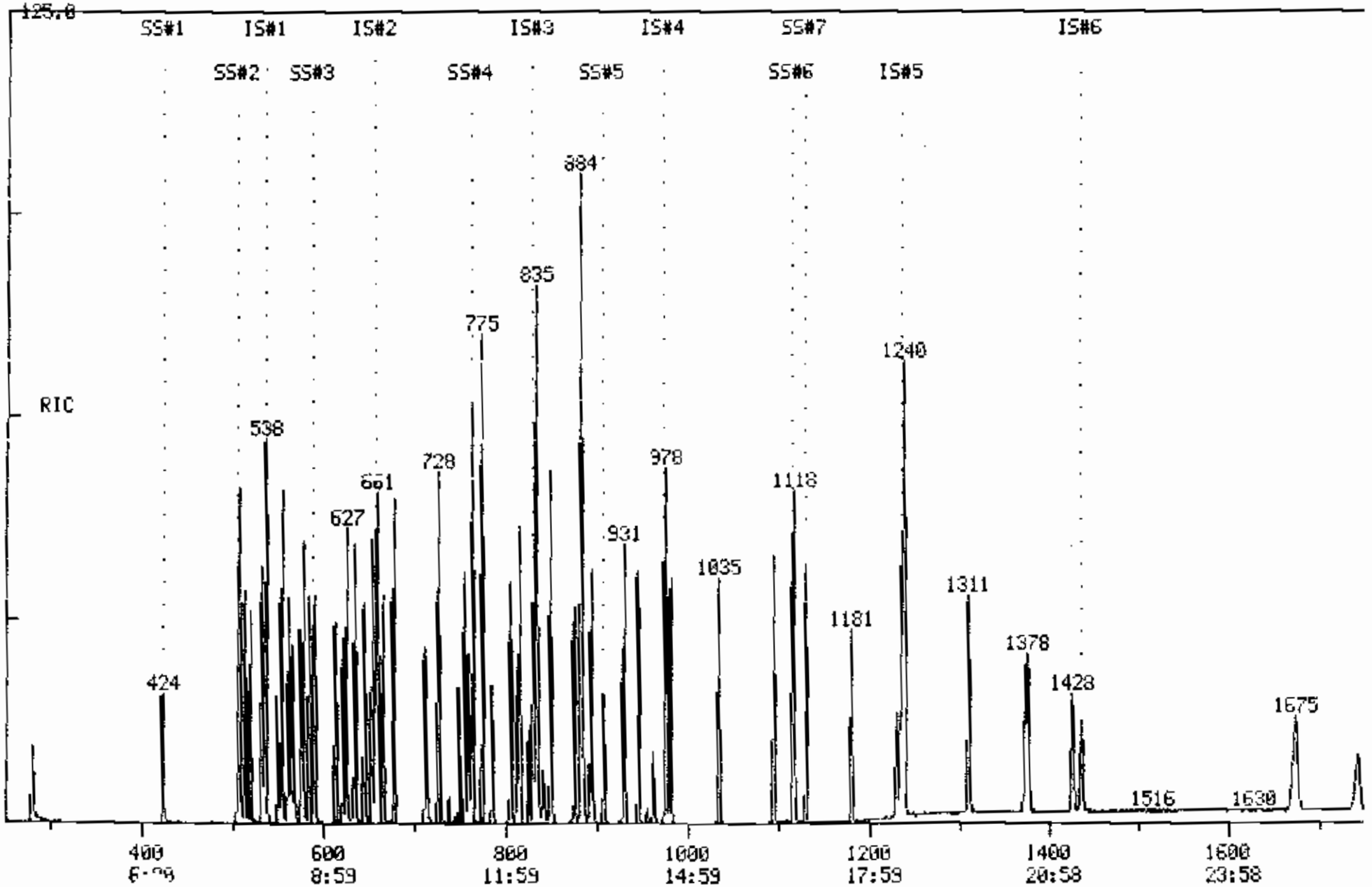
12/04/85 18:32:00

SAMPLE: 1 UL 50 NG STD#16159 (11-29-85)

CONDS.:

COMPUCHSM DATA: HH851204B2I SCANS 251 TO 1751

OUT OF 251 TO 1900



QUANTITATION REPORT FILE: HH851204B21

DATA: HH851204B21.TI
12/04/85 18:32:00
SAMPLE: 1 UL 50 NG STD#16159 (11-29-85)
CONDS.:
SUBMITTED BY: 21 ANALYST: 802

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	439 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLORODUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLORODENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#625 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

Ac 12/16/87

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	537	8:03	1	1.000	A BB	57776.	40.000 NG	0.99
2	42	282	4:13	1	0.525	A*BV	65620.	50.000 NG	1.24
3	94	508	7:37	1	0.946	A*BB	142447.	50.000 NG	1.24
4	93	509	7:38	1	0.948	A DV	108216.	50.000 NG	1.24
5	93	515	7:43	1	0.959	A VV	112464.	50.000 NG	1.24
6	128	520	7:47	1	0.968	A BV	98852.	50.000 NG	1.24
7	146	533	7:59	1	0.993	A DV	112852.	50.000 NG	1.24
8	146	538	8:04	1	1.002	A VB	124344.	50.000 NG	1.24
9	108	551	8:15	1	1.026	A BV	35364.	50.000 NG	1.24
10	146	556	8:20	1	1.035	A BV	111404.	50.000 NG	1.24
11	108	563	8:26	1	1.048	A VV	90048.	50.000 NG	1.24
12	45	567	8:30	1	1.056	A BB	105264.	50.000 NG	1.24
13	108	576	8:38	1	1.073	A VV	92308.	50.000 NG	1.24
14	70	579	8:40	1	1.078	A BV	75588.	50.000 NG	1.24
15	117	586	8:47	1	1.091	A BB	57424.	50.000 NG	1.24
16	77	592	8:52	1	1.102	A VV	96468.	50.000 NG	1.24
17	136	658	9:51	17	1.000	A BV	198332.	40.000 NG	0.99
18	82	615	9:13	17	0.935	A BB	168600.	50.000 NG	1.24

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	623	9:20	17	0.947	A BB	51700.	50.000	NG	1.24
20	122	627	9:24	17	0.953	A VV	80140.	50.000	NG	1.24
21	122	636	9:32	17	0.967	A VB	24660.	50.000	NG	1.24
22	93	636	9:32	17	0.967	A BB	105616.	50.000	NG	1.24
23	162	646	9:41	17	0.982	A BV	76112.	50.000	NG	1.24
24	180	654	9:48	17	0.994	A BB	95340.	50.000	NG	1.24
25	128	660	9:53	17	1.003	A BV	273512.	50.000	NG	1.24
26	127	666	9:59	17	1.012	A VV	103724.	50.000	NG	1.24
27	225	679	10:10	17	1.032	A BB	51780.	50.000	NG	1.24
28	107	713	10:41	17	1.084	A*BB	119500.	50.000	NG	1.24
29	142	728	10:54	17	1.106	A BV	168520.	50.000	NG	1.24
30	164	831	12:27	30	1.000	A BB	97284.	40.000	NG	0.99
31	237	750	11:14	30	0.903	A BB	41148.	50.000	NG	1.24
32	196	757	11:20	30	0.911	A BV	49180.	50.000	NG	1.24
33	196	761	11:24	30	0.916	A VB	49660.	50.000	NG	1.24
34	162	775	11:37	30	0.933	A BB	165044.	50.000	NG	1.24
35	65	786	11:46	30	0.946	A BB	36204.	50.000	NG	1.24
36	163	807	12:05	30	0.971	A BB	171656.	50.000	NG	1.24
37	152	816	12:13	30	0.982	A BB	228748.	50.000	NG	1.24
38	138	826	12:22	30	0.994	A BV	35800.	50.000	NG	1.24
39	153	835	12:31	30	1.005	A BB	156420.	50.000	NG	1.24
40	184	837	12:32	30	1.007	A BB	13896.	50.000	NG	1.24
41	139	842	12:37	30	1.013	A BV	23780.	50.000	NG	1.24
42	168	850	12:44	30	1.023	A BB	203240.	50.000	NG	1.24
43	89	852	12:46	30	1.025	A BB	42068.	50.000	NG	1.24
44	165	813	12:11	30	0.978	A BB	38644.	50.000	NG	1.24
45	149	877	13:08	30	1.055	A BV	176800.	50.000	NG	1.24
46	204	883	13:14	30	1.063	A BB	78684.	50.000	NG	1.24
47	166	884	13:15	30	1.064	A BV	170292.	50.000	NG	1.24
48	138	886	13:16	30	1.066	A*BV	33588.	50.000	NG	1.24
49	188	976	14:37	49	1.000	A BV	141460.	40.000	NG	0.99
50	198	892	13:22	49	0.914	A BV	15984.	50.000	NG	1.24
51	169	895	13:24	49	0.917	A BB	111444.	50.000	NG	1.24
52	248	931	13:57	49	0.954	A BB	43764.	50.000	NG	1.24
53	284	946	14:10	49	0.969	A BB	53560.	50.000	NG	1.24
54	266	963	14:26	49	0.987	A BV	13004.	50.000	NG	1.24
55	178	978	14:39	49	1.002	A BV	207128.	50.000	NG	1.24
56	178	982	14:43	49	1.006	A VV	191704.	50.000	NG	1.24
57	149	1035	15:30	49	1.060	A VV	254344.	50.000	NG	1.24
58	202	1096	16:25	49	1.123	A BV	182660.	50.000	NG	1.24
59	240	1238	18:33	59	1.000	A BB	91520.	40.000	NG	0.99
60	184	1116	16:43	59	0.901	A BB	1944.	50.000	NG	1.24
61	202	1118	16:45	59	0.903	A VV	182704.	50.000	NG	1.24
62	149	1181	17:42	59	0.954	A BV	85368.	50.000	NG	1.24
63	252	1231	18:26	59	0.994	A BV	42284.	50.000	NG	1.24
64	228	1236	18:31	59	0.998	A BV	156028.	50.000	NG	1.24
65	149	1239	18:34	59	1.001	A VV	150480.	50.000	NG	1.24
66	228	1240	18:35	59	1.002	A VV	143304.	50.000	NG	1.24
67	264	1438	21:33	67	1.000	A BV	88336.	40.000	NG	0.99
68	149	1311	19:38	67	0.912	A*BB	304272.	50.000	NG	1.24
69	252	1378	20:39	67	0.958	A*BV	290556.	50.000	NG	1.24
70	252	1378	20:39	67	0.958	A*BV	290556.	50.000	NG	1.24
71	252	1428	21:24	67	0.993	A BV	132488.	50.000	NG	1.24
72	276	1673	25:04	67	1.163	A BB	143996.	50.000	NG	1.24
73	278	1677	25:07	67	1.166	A BV	119012.	50.000	NG	1.24
74	276	1744	26:08	67	1.213	A BV	110748.	50.000	NG	1.24

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	423	6:20	1	0.788	A BV	92736.	50.000 NG	1.24
76	99	507	7:36	1	0.944	A BV	119828.	50.000 NG	1.24
77	82	590	8:50	17	0.897	A VB	99164.	50.000 NG	1.24
78	172	765	11:28	30	0.921	A BB	181036.	50.000 NG	1.24
79	141	909	13:37	30	1.094	A BB	12320.	50.000 NG	1.24
80	244	1132	16:57	59	0.914	A BV	124688.	50.000 NG	1.24
81	212	1116	16:43	59	0.901	A BV	163000.	50.000 NG	1.24
82	216	776	11:37	17	1.179	A BB	80760.	50.000 NG	1.24

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	8:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	4:13	1.00	10.000	0.05	50.00	50.00	0.909	0.909	1.00
3	7:37	1.00	10.000	0.09	50.00	50.00	1.972	1.972	1.00
4	7:38	1.00	10.000	0.09	50.00	50.00	1.498	1.498	1.00
5	7:43	1.00	10.000	0.10	50.00	50.00	1.557	1.557	1.00
6	7:47	1.00	10.000	0.10	50.00	50.00	1.369	1.369	1.00
7	7:59	1.00	10.000	0.10	50.00	50.00	1.563	1.563	1.00
8	8:04	1.00	10.000	0.10	50.00	50.00	1.722	1.722	1.00
9	8:15	1.00	10.000	0.10	50.00	50.00	0.490	0.490	1.00
10	8:20	1.00	10.000	0.10	50.00	50.00	1.543	1.543	1.00
11	8:26	1.00	10.000	0.10	50.00	50.00	1.247	1.247	1.00
12	8:30	1.00	10.000	0.11	50.00	50.00	1.458	1.458	1.00
13	8:38	1.00	10.000	0.11	50.00	50.00	1.278	1.278	1.00
14	8:40	1.00	10.000	0.11	50.00	50.00	1.047	1.047	1.00
15	8:47	1.00	10.000	0.11	50.00	50.00	0.795	0.795	1.00
16	8:52	1.00	10.000	0.11	50.00	50.00	1.336	1.336	1.00
17	9:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	9:13	1.00	10.000	0.09	50.00	50.00	0.680	0.680	1.00
19	9:20	1.00	10.000	0.09	50.00	50.00	0.209	0.209	1.00
20	9:24	1.00	10.000	0.10	50.00	50.00	0.323	0.323	1.00
21	9:32	1.00	50.000	0.02	50.00	50.00	0.099	0.099	1.00
22	9:32	1.00	10.000	0.10	50.00	50.00	0.426	0.426	1.00
23	9:41	1.00	10.000	0.10	50.00	50.00	0.307	0.307	1.00
24	9:48	1.00	10.000	0.10	50.00	50.00	0.385	0.385	1.00
25	9:53	1.00	10.000	0.10	50.00	50.00	1.103	1.103	1.00
26	9:59	1.00	10.000	0.10	50.00	50.00	0.418	0.418	1.00
27	10:10	1.00	10.000	0.10	50.00	50.00	0.209	0.209	1.00
28	10:41	1.00	10.000	0.11	50.00	50.00	0.482	0.482	1.00
29	10:54	1.00	10.000	0.11	50.00	50.00	0.680	0.680	1.00
30	12:27	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	11:14	1.00	10.000	0.09	50.00	50.00	0.338	0.338	1.00
32	11:20	1.00	10.000	0.09	50.00	50.00	0.404	0.404	1.00
33	11:24	1.00	50.000	0.02	50.00	50.00	0.408	0.408	1.00
34	11:37	1.00	10.000	0.09	50.00	50.00	1.357	1.357	1.00
35	11:46	1.00	50.000	0.02	50.00	50.00	0.298	0.298	1.00
36	12:05	1.00	10.000	0.10	50.00	50.00	1.413	1.413	1.00
37	12:13	1.00	10.000	0.10	50.00	50.00	1.881	1.881	1.00
38	12:22	1.00	50.000	0.02	50.00	50.00	0.294	0.294	1.00
39	12:31	1.00	10.000	0.10	50.00	50.00	1.286	1.286	1.00
40	12:32	1.00	50.000	0.02	50.00	50.00	0.114	0.114	1.00
41	12:37	1.00	50.000	0.02	50.00	50.00	0.196	0.196	1.00
42	12:44	1.00	10.000	0.10	50.00	50.00	1.671	1.671	1.00
43	12:46	1.00	10.000	0.10	50.00	50.00	0.346	0.346	1.00
44	12:11	1.00	10.000	0.10	50.00	50.00	0.318	0.318	1.00
45	13:08	1.00	10.000	0.11	50.00	50.00	1.454	1.454	1.00
46	13:14	1.00	10.000	0.11	50.00	50.00	0.647	0.647	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	13:15	1.00	10.000	0.11	50.00	50.00	1.400	1.400	1.00
48	13:16	1.00	50.000	0.02	50.00	50.00	0.276	0.276	1.00
49	14:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	13:22	1.00	50.000	0.02	50.00	50.00	0.090	0.090	1.00
51	13:24	1.00	10.000	0.09	50.00	50.00	0.630	0.630	1.00
52	13:57	1.00	10.000	0.10	50.00	50.00	0.247	0.247	1.00
53	14:10	1.00	10.000	0.10	50.00	50.00	0.303	0.303	1.00
54	14:26	1.00	50.000	0.02	50.00	50.00	0.074	0.074	1.00
55	14:39	1.00	10.000	0.10	50.00	50.00	1.171	1.171	1.00
56	14:43	1.00	10.000	0.10	50.00	50.00	1.084	1.084	1.00
57	15:30	1.00	10.000	0.11	50.00	50.00	1.438	1.438	1.00
58	16:25	1.00	10.000	0.11	50.00	50.00	1.033	1.033	1.00
59	18:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:43	1.00	50.000	0.02	50.00	50.00	0.017	0.017	1.00
61	16:45	1.00	10.000	0.09	50.00	50.00	1.597	1.597	1.00
62	17:42	1.00	10.000	0.10	50.00	50.00	0.746	0.746	1.00
63	18:26	1.00	20.000	0.05	50.00	50.00	0.370	0.370	1.00
64	18:31	1.00	10.000	0.10	50.00	50.00	1.364	1.364	1.00
65	18:34	1.00	10.000	0.10	50.00	50.00	1.315	1.315	1.00
66	18:35	1.00	10.000	0.10	50.00	50.00	1.253	1.253	1.00
67	21:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:38	1.00	10.000	0.09	50.00	50.00	2.756	2.756	1.00
69	20:39	1.00	10.000	0.10	50.00	50.00	2.631	2.631	1.00
70	20:39	1.00	10.000	0.10	50.00	50.00	2.631	2.631	1.00
71	21:24	1.00	10.000	0.10	50.00	50.00	1.200	1.200	1.00
72	25:04	1.00	10.000	0.12	50.00	50.00	1.304	1.304	1.00
73	25:07	1.00	10.000	0.12	50.00	50.00	1.078	1.078	1.00
74	26:08	1.00	10.000	0.12	50.00	50.00	1.003	1.003	1.00
75	6:20	1.00	0.742	1.06	50.00	50.00	1.284	1.284	1.00
76	7:36	1.00	0.948	1.00	50.00	50.00	1.659	1.659	1.00
77	8:50	1.00	0.875	1.02	50.00	50.00	0.400	0.400	1.00
78	11:28	1.00	0.906	1.02	50.00	50.00	1.489	1.489	1.00
79	13:37	1.00	1.118	0.98	50.00	50.00	0.101	0.101	1.00
80	16:57	1.00	0.907	1.01	50.00	50.00	1.090	1.090	1.00
81	16:43	1.00	10.000	0.09	50.00	50.00	1.425	1.425	1.00
82	11:37	1.00	1.000	1.18	50.00	50.00	0.326	0.326	1.00

SEMIVOA	% RECOVERY
2 FLUOROPHENOL	$\frac{42.7}{50} \times 100 = 85$
D5 PHENOL	$\frac{40.6}{50} \times 100 = 81.2$
TRIBROMOPHNOL	$\frac{25.1}{50} \times 100 = 50$

$$\% \text{ RECOVERY} = \frac{\text{QUANT REPORT VALUE}}{50} \times 100$$

% RECOVERY MUST BE GREATER THAN 75 %

COMMENTS OR CORRECTIVE ACTION TAKEN

DATA: SC851204B21.TI
12/04/85 19:57:00
SAMPLE: 1 UL STD#16272 (12-11-85)
CONDS.:
SUBMITTED BY: 21 ANALYST: 802

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#494 D4-1,4-DICHLOROBENZENE (IS#1)
2	#460 D8-NAPHTHALENE (IS#2)
3	#495 D10-ACENAPHTHENE (IS#3)
4	#619 2-FLUOROPHENOL (SS#1)
5	#612 D5-PHENOL (SS#2)
6	#628 2,4,6-TRIBROMOPHENOL (SS#5)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	537	8:03	1	1.000	A BV	54284.	40.000	NG	17.51
2	136	658	9:51	2	1.000	A BV	171524.	40.000	NG	17.51
3	164	831	12:27	3	1.000	A BB	84724.	40.000	NG	17.51
4	112	424	6:21	1	0.790	A BV	74452.	42.724	NG	18.70
5	99	507	7:36	1	0.944	A BV	91540.	40.654	NG	17.79
6	141	909	13:37	3	1.094	A BB	5392.	25.127	NG	11.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	8:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	9:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
3	12:27	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
4	6:20	1.00	0.742	1.06	42.72	50.00	1.097	1.284	0.85
5	7:36	1.00	0.948	1.00	40.65	50.00	1.349	1.659	0.81
6	13:37	1.00	1.118	0.98	25.13	50.00	0.051	0.101	0.50

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 16:39 — Scan(s) (A) (B)
Time Tune Expires 4:39 — Date 12-04-85
Analysis Type

	REJECTED	Run Log: File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
1		DF8512Ø4B21		12/4/85	16:39	DFTPP		1µl	1Ø25		3031	*16156(1Ø5Ø)
2		HG8512Ø4Ø21		12/4/85	17:30	50ng		1.0µl	RO2		2031	#16159 (2265)
3		HH8512Ø4B21		12/4/85	18:22	50		1.0µl	802		3031	16157
4		SC8512Ø4B21		12/4/85	19:57	surr.		1.0µl	802		3031	16272
5		GH0677736Ø21		12/4/85	21:17	CB907	5225	1.0µl	802		3031	67773
6		GH067774B21		12/4/85	4:54	CB908	5225	1.0µl	802		3031	67774
7		GH067775Ø21		12/4/85	23:07	CB909	5225	1.0µl	802		3031	67775
8		GH068827C21		12/5/85	0:18	B1	URS	1.0µl	917		3031	OK
9	X	GH068387C21		12/5/85	0:53	SS	URS	1.0µl	917		3031	OK
10	X	GH068388C21		12/5/85	1:27	273/398 SS	URS	1.0µl	917		3031	no spikes
11		GH068381C21		12/5/85	2:07	273/398 #E	URS	1.0µl	917		3031	OK
12	X	GH068380C21		12/5/85	2:39	#D	URS	1.0µl	917		3031	I.E
13		GH068380C21		12/5/85	3:17	#D	URS	1.0µl	917		3031	OK
14		GH068382C21		12/5/85	3:50	#G	URS	1.0µl	917		3031	OK
15		GH068390C21		12/5/85	4:21	#B	URS	1.0µl	917		3031	OK
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S.M
12/5/1985

Press Hard, Mi Copies

COMPUCHEM LABS

RIC

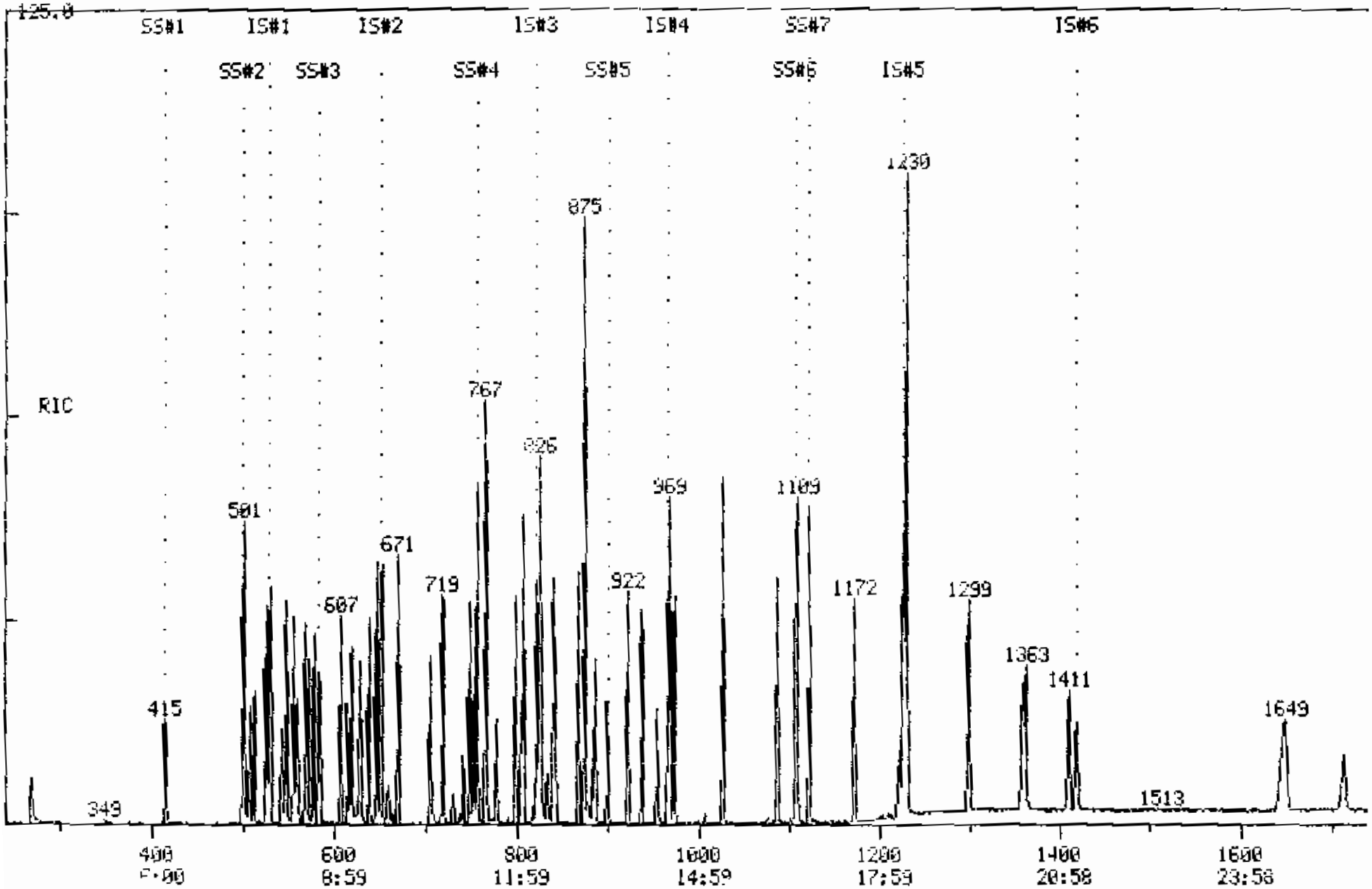
12/05/85 8:09:00

SAMPLE: 1UL SEMI STD 50NG 16159(2365) ON#21

CONDS.:

COMPUCHEM DATA: HQ851205A21 SCANS 240 TO 1740

OUT OF 240 TO 2000



COMPUCHEM LABS

RIC
12/05/85 8:09:00
SAMPLE: 1UL SEMI STD 50NG 16159(2365) ON#21
CONDS.:

COMPUCHEM DATA: HG851205A21 SCANS 1740 TO 2000
OUT OF 240 TO 2000

1471990.

INTERNAL STANDARD AREA MONITOR

QUANTITATION REPORT FILE: HGB51205A21

DATA: HGB51205A21.TI
12/05/85 8:09:00
SAMPLE: 1UL SEMI STD 50NG 16159(2365) ON#21
CONDS.:
SUBMITTED BY: #21 ANALYST: 874

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

CM, 12/5/1-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	529	7:55	1	1.000	A BB	85896.	40.000	NG	0.97
2	42	270	4:03	1	0.510	A BV	112964.	50.000	NG	1.21
3	94	501	7:30	1	0.947	A*BB	292828.	50.000	NG	1.21
4	93	502	7:31	1	0.949	A BV	102600.	50.000	NG	1.21
5	93	508	7:37	1	0.960	A VV	153256.	50.000	NG	1.21
6	128	512	7:40	1	0.968	A BV	142376.	50.000	NG	1.21
7	146	526	7:53	1	0.994	A BV	165408.	50.000	NG	1.21
8	146	531	7:57	1	1.004	A VV	176208.	50.000	NG	1.21
9	108	543	8:08	1	1.026	A BV	66792.	50.000	NG	1.21
10	146	548	8:13	1	1.036	A BV	150176.	50.000	NG	1.21
11	108	556	8:20	1	1.051	A VV	121096.	50.000	NG	1.21
12	45	559	8:22	1	1.057	A BB	144788.	50.000	NG	1.21
13	108	569	8:31	1	1.076	A VV	125512.	50.000	NG	1.21
14	70	572	8:34	1	1.081	A*BV	99192.	50.000	NG	1.21
15	117	578	8:40	1	1.093	A BB	74648.	50.000	NG	1.21
16	77	585	8:46	1	1.106	A VB	136664.	50.000	NG	1.21
17	136	651	9:45	17	1.000	A BV	291688.	40.000	NG	0.97
18	82	607	9:06	17	0.932	A BV	258280.	50.000	NG	1.21

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
19	139	615	9:13	17	0.945	A BV	79028.	50.000	NG	1.21
20	122	619	9:16	17	0.951	A VV	115288.	50.000	NG	1.21
21	122	629	9:25	17	0.966	A VV	57156.	50.000	NG	1.21
22	93	628	9:24	17	0.965	A BV	159376.	50.000	NG	1.21
23	162	638	9:33	17	0.980	A BV	112516.	50.000	NG	1.21
24	180	647	9:42	17	0.994	A BB	134336.	50.000	NG	1.21
25	128	652	9:46	17	1.002	A VV	421780.	50.000	NG	1.21
26	127	659	9:52	17	1.012	A VV	63992.	50.000	NG	1.21
27	225	671	10:03	17	1.031	A BB	80796.	50.000	NG	1.21
28	107	705	10:34	17	1.083	A BV	108188.	50.000	NG	1.21
29	142	719	10:46	17	1.104	A VB	246016.	50.000	NG	1.21
30	164	823	12:20	30	1.000	A BV	149968.	40.000	NG	0.97
31	237	742	11:07	30	0.902	A BB	31620.	50.000	NG	1.21
32	196	749	11:13	30	0.910	A BV	149952.74474	100.000	NG	2.42
33	196	749	11:13	30	0.910	A BV	149952.74474	100.000	NG	2.42
34	162	767	11:29	30	0.932	A BB	239424.	50.000	NG	1.21
35	65	778	11:39	30	0.945	A BV	47032.	50.000	NG	1.21
36	163	799	11:58	30	0.971	A BV	275344.	50.000	NG	1.21
37	152	808	12:06	30	0.982	A BV	358052.	50.000	NG	1.21
38	138	819	12:16	30	0.995	A BV	14812.	50.000	NG	1.21
39	153	826	12:22	30	1.004	A BB	235400.	50.000	NG	1.21
40	184	828	12:24	30	1.006	A BV	18872.	50.000	NG	1.21
41	139	834	12:30	30	1.013	A BV	38312.	50.000	NG	1.21
42	168	842	12:37	30	1.023	A BB	306852.	50.000	NG	1.21
43	89	843	12:38	30	1.024	A*BB	58948.	50.000	NG	1.21
44	165	805	12:04	30	0.978	A BV	54856.	50.000	NG	1.21
45	149	868	13:00	30	1.055	A BV	297640.	50.000	NG	1.21
46	204	875	13:06	30	1.063	A BB	129368.	50.000	NG	1.21
47	166	875	13:06	30	1.063	A BV	261712.	50.000	NG	1.21
48	138	878	13:09	30	1.067	A*BV	35552.	50.000	NG	1.21
49	188	967	14:29	49	1.000	A BV	241100.	40.000	NG	0.97
50	198	883	13:14	49	0.913	A BV	30488.	50.000	NG	1.21
51	169	886	13:16	49	0.916	A BV	138224.	50.000	NG	1.21
52	248	922	13:49	49	0.953	A BB	71484.	50.000	NG	1.21
53	284	937	14:02	49	0.969	A BV	93124.	50.000	NG	1.21
54	266	954	14:17	49	0.987	A BB	31556.	50.000	NG	1.21
55	178	969	14:31	49	1.002	A BV	351172.	50.000	NG	1.21
56	178	973	14:35	49	1.006	A VV	331372.	50.000	NG	1.21
57	149	1027	15:23	49	1.062	A BV	527912.	50.000	NG	1.21
58	202	1086	16:16	49	1.123	A BV	359008.	50.000	NG	1.21
59	240	1227	18:23	59	1.000	A BV	183524.	40.000	NG	0.97
60	184	1107	16:35	59	0.902	A BB	4332	50.000	NG	1.21
61	202	1109	16:37	59	0.904	A VV	385964.	50.000	NG	1.21
62	149	1172	17:33	59	0.955	A BV	195995.	50.000	NG	1.21
63	252	1222	18:18	59	0.996	A BV	40344.	50.000	NG	1.21
64	228	1226	18:22	59	0.999	A VV	305254.	50.000	NG	1.21
65	149	1230	18:26	59	1.002	A VV	333727.	50.000	NG	1.21
66	228	1230	18:26	59	1.002	A VB	277152.	50.000	NG	1.21
67	264	1420	21:16	67	1.000	A BV	150308.	40.000	NG	0.97
68	149	1299	19:28	67	0.915	A BV	472801.	50.000	NG	1.21
69	252	1359	20:21	67	0.957	A BV	281178.	50.000	NG	1.21
70	252	1363	20:25	67	0.960	A VV	212539.	50.000	NG	1.21
71	252	1411	21:08	67	0.994	A VV	229862.	50.000	NG	1.21
72	276	1646	24:39	67	1.159	A BV	248808.	50.000	NG	1.21
73	278	1650	24:43	67	1.162	A BV	202596.	50.000	NG	1.21
74	276	1713	25:40	67	1.206	A BV	192351.	50.000	NG	1.21

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	415	6:13	1	0.784	A BV	125348.	50.000 NG	1.21
76	99	500	7:29	1	0.945	A BV	168376.	50.000 NG	1.21
77	82	583	8:44	17	0.896	A VV	134172.	50.000 NG	1.21
78	172	757	11:20	30	0.920	A BV	267888.	50.000 NG	1.21
79	141	900	13:29	30	1.094	A BV	20684.	50.000 NG	1.21
80	244	1123	16:49	59	0.915	A BV	263884.	50.000 NG	1.21
81	212	1107	16:35	59	0.902	A VV	938920.	50.000 NG	1.21
82	216	768	11:30	17	1.180	A BB	114980.	50.000 NG	1.21

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:55	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	4:03	1.00	10.000	0.05	50.00	50.00	1.052	1.052.	1.00
3	7:30	1.00	10.000	0.09	50.00	50.00	2.727	2.727	1.00
4	7:31	1.00	10.000	0.09	50.00	50.00	0.956	0.956	1.00
5	7:37	1.00	10.000	0.10	50.00	50.00	1.427	1.427	1.00
6	7:40	1.00	10.000	0.10	50.00	50.00	1.326	1.326	1.00
7	7:53	1.00	10.000	0.10	50.00	50.00	1.541	1.541	1.00
8	7:57	1.00	10.000	0.10	50.00	50.00	1.641	1.641	1.00
9	8:08	1.00	10.000	0.10	50.00	50.00	0.622	0.622	1.00
10	8:13	1.00	10.000	0.10	50.00	50.00	1.399	1.399	1.00
11	8:20	1.00	10.000	0.11	50.00	50.00	1.128	1.128	1.00
12	8:22	1.00	10.000	0.11	50.00	50.00	1.348	1.348	1.00
13	8:31	1.00	10.000	0.11	50.00	50.00	1.169	1.169	1.00
14	8:34	1.00	10.000	0.11	50.00	50.00	0.924	0.924	1.00
15	8:40	1.00	10.000	0.11	50.00	50.00	0.695	0.695	1.00
16	8:46	1.00	10.000	0.11	50.00	50.00	1.273	1.273	1.00
17	9:45	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	9:06	1.00	10.000	0.09	50.00	50.00	0.708	0.708	1.00
19	9:13	1.00	10.000	0.09	50.00	50.00	0.217	0.217	1.00
20	9:16	1.00	10.000	0.10	50.00	50.00	0.316	0.316	1.00
21	9:25	1.00	50.000	0.02	50.00	50.00	0.157	0.157	1.00
22	9:24	1.00	10.000	0.10	50.00	50.00	0.437	0.437	1.00
23	9:33	1.00	10.000	0.10	50.00	50.00	0.309	0.309	1.00
24	9:42	1.00	10.000	0.10	50.00	50.00	0.368	0.368	1.00
25	9:46	1.00	10.000	0.10	50.00	50.00	1.157	1.157	1.00
26	9:52	1.00	10.000	0.10	50.00	50.00	0.176	0.176	1.00
27	10:03	1.00	10.000	0.10	50.00	50.00	0.222	0.222	1.00
28	10:34	1.00	10.000	0.11	50.00	50.00	0.297	0.297.	1.00
29	10:46	1.00	10.000	0.11	50.00	50.00	0.675	0.675	1.00
30	12:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	11:07	1.00	10.000	0.09	50.00	50.00	0.169	0.169	1.00
32	11:13	1.00	10.000	0.09	100.00	100.00	0.400	0.400	1.00
33	11:13	1.00	50.000	0.02	100.00	100.00	0.400	0.400	1.00
34	11:29	1.00	10.000	0.09	50.00	50.00	1.277	1.277	1.00
35	11:39	1.00	50.000	0.02	50.00	50.00	0.251	0.251	1.00
36	11:58	1.00	10.000	0.10	50.00	50.00	1.469	1.469	1.00
37	12:06	1.00	10.000	0.10	50.00	50.00	1.910	1.910	1.00
38	12:16	1.00	50.000	0.02	50.00	50.00	0.079	0.079	1.00
39	12:22	1.00	10.000	0.10	50.00	50.00	1.256	1.256	1.00
40	12:24	1.00	50.000	0.02	50.00	50.00	0.101	0.101	1.00
41	12:30	1.00	50.000	0.02	50.00	50.00	0.204	0.204	1.00
42	12:37	1.00	10.000	0.10	50.00	50.00	1.637	1.637	1.00
43	12:38	1.00	10.000	0.10	50.00	50.00	0.314	0.314	1.00
44	12:04	1.00	10.000	0.10	50.00	50.00	0.293	0.293	1.00
45	13:00	1.00	10.000	0.11	50.00	50.00	1.588	1.588	1.00
46	13:06	1.00	10.000	0.11	50.00	50.00	0.690	0.690	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	13:06	1.00	10.000	0.11	50.00	50.00	1.396	1.396	1.00
48	13:09	1.00	50.000	0.02	50.00	50.00	0.190	0.190	1.00
49	14:29	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	13:14	1.00	50.000	0.02	50.00	50.00	0.101	0.101	1.00
51	13:16	1.00	10.000	0.09	50.00	50.00	0.459	0.459	1.00
52	13:49	1.00	10.000	0.10	50.00	50.00	0.237	0.237	1.00
53	14:02	1.00	10.000	0.10	50.00	50.00	0.309	0.309	1.00
54	14:17	1.00	50.000	0.02	50.00	50.00	0.105	0.105	1.00
55	14:31	1.00	10.000	0.10	50.00	50.00	1.165	1.165	1.00
56	14:35	1.00	10.000	0.10	50.00	50.00	1.100	1.100	1.00
57	15:23	1.00	10.000	0.11	50.00	50.00	1.752	1.752	1.00
58	16:16	1.00	10.000	0.11	50.00	50.00	1.191	1.191	1.00
59	18:23	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:35	1.00	50.000	0.02	50.00	50.00	0.019	0.019	1.00
61	16:37	1.00	10.000	0.09	50.00	50.00	1.682	1.682	1.00
62	17:33	1.00	10.000	0.10	50.00	50.00	0.854	0.854	1.00
63	18:18	1.00	20.000	0.05	50.00	50.00	0.176	0.176	1.00
64	18:22	1.00	10.000	0.10	50.00	50.00	1.331	1.331	1.00
65	18:26	1.00	10.000	0.10	50.00	50.00	1.455	1.455	1.00
66	18:26	1.00	10.000	0.10	50.00	50.00	1.208	1.208	1.00
67	21:16	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:28	1.00	10.000	0.09	50.00	50.00	2.516	2.516	1.00
69	20:21	1.00	10.000	0.10	50.00	50.00	1.497	1.497	1.00
70	20:25	1.00	10.000	0.10	50.00	50.00	1.131	1.131	1.00
71	21:08	1.00	10.000	0.10	50.00	50.00	1.223	1.223	1.00
72	24:39	1.00	10.000	0.12	50.00	50.00	1.324	1.324	1.00
73	24:43	1.00	10.000	0.12	50.00	50.00	1.078	1.078	1.00
74	25:40	1.00	10.000	0.12	50.00	50.00	1.024	1.024	1.00
75	6:13	1.00	0.742	1.06	50.00	50.00	1.167	1.167	1.00
76	7:29	1.00	0.948	1.00	50.00	50.00	1.568	1.568	1.00
77	8:44	1.00	0.875	1.02	50.00	50.00	0.368	0.368	1.00
78	11:20	1.00	0.906	1.02	50.00	50.00	1.429	1.429	1.00
79	13:29	1.00	1.118	0.98	50.00	50.00	0.110	0.110	1.00
80	16:49	1.00	0.907	1.01	50.00	50.00	1.150	1.150	1.00
81	16:35	1.00	10.000	0.09	50.00	50.00	1.477	1.477	1.00
82	11:30	1.00	1.000	1.18	50.00	50.00	0.315	0.315	1.00

SEMIVOA	% RECOVERY
2 FLUOROPHENOL	$\frac{51.2}{50}$ X 100 = 102
D5 PHENOL	$\frac{46.0}{50}$ X 100 = 92
TRIBROMOPHNOL	$\frac{50.5}{50}$ X 100 = 101

$$\% \text{ RECOVERY} = \frac{\text{QUANT REPORT VALUE}}{50} \times 100$$

% RECOVERY MUST BE GREATER THAN 75 %

COMMENTS OR CORRECTIVE ACTION TAKEN

GUANTITATION REPORT FILE: SCB51205A21

DATA: SC851205A21.TI
12/05/85 9:17:00
SAMPLE: 1UL SURR CHK 16272(392) EXP12/11/85 ON#21
CONDS.:
SUBMITTED BY: #21 ANALYST: 874

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#494 D4-1,4-DICHLOROBENZENE (IS#1)
2	#460 D8-NAPHTHALENE (IS#2)
3	#495 D10-ACENAPHTHENE (IS#3)
4	#619 2-FLUOROPHENOL (SS#1)
5	#612 D5-PHENOL (SS#2)
6	#628 2,4,6-TRIBROMOPHENOL (SS#5)

com 12/5/6

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	529	7:55	1	1.000	A BV	117536.	40.000 NG	14.94
2	136	651	9:45	2	1.000	A BV	370352.	40.000 NG	14.94
3	164	823	12:20	3	1.000	A BV	185612.	40.000 NG	14.94
4	112	416	6:14	1	0.786	A BV	175782.	51.242 NG	19.14
5	99	500	7:29	1	0.945	A BV	211804.	45.965 NG	17.17
6	141	901	13:30	3	1.095	A*BB	25840.	50.469 NG	18.85

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:55	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	9:45	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
3	12:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
4	6:13	1.00	0.742	1.06	51.24	50.00	1.196	1.167	1.02
5	7:29	1.00	0.948	1.00	45.96	50.00	1.442	1 568	0.92
6	13:29	1.00	1.118	0.98	50.47	50.00	0.111	0.110	1.01

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 7:01
Time Tune Expires 19:01

Shift(s) (A) ✓ (B) ____ (C) ____
Date 12/5/85
Analysis Type SEM3

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Et
1		DH851205C21		12/5/85	7:01	DFTPP		1ul	874		3031	16888 (7050)
2	DH	HG851205A21		12/5/85	7:38	50ng		1ul	874			16159(2365) GC cond. mon
3		HG851205A21		12/5/85	8:09	50ng		1ul	874		↓	16159(2365
4		SL851205A21		12/5/85	9:17	SunCHK		1ul	874			16272(392)
5		GS068390A21		12/5/85	9:43	B	10mm	1ul	874			
6		GH068391A21		12/5/85	10:12	F	10mm	1ul	874			
7		GH069611A21		12/5/85	10:45	Blank	5233	1ul	874			
8		GH069252A21		12/5/85	11:19	55 27% Acet	5233	1ul	874			
9		GH069253A21		12/5/85	12:04	55	5233	1ul	874			
10		GH069261A21		12/5/85	13:22	BD954	5233	1ul	874			
11		GH069247A21		12/5/85	14:15	BC697	5233	1ul	874			
12		GH069254A21		12/5/85	15:09	BD949	5233	1ul	874			
13		GH069258B21		12/5/85	16:01	BD950	5233	1.0ul	802		3031	69258
14		GH069259B21		12/5/85	16:48	BD951	5233	1.0ul	802		3031	69259
15		GH069260B21		12/5/85	17:38	BD952	5233	1.0ul	802		3031	69260
16				/ /	:							
17				/ /	:							
18				/ /	:							
19				/ /	:							
20				/ /	:							
21				/ /	:							
22				/ /	:							
23				/ /	:							
24				/ /	:							
25				/ /	:							
26				/ /	:							

ENTERED
12/7/85

DH 12/5/85

Press Ha ltiple Copies

COMPUCHEM LABS

RIC

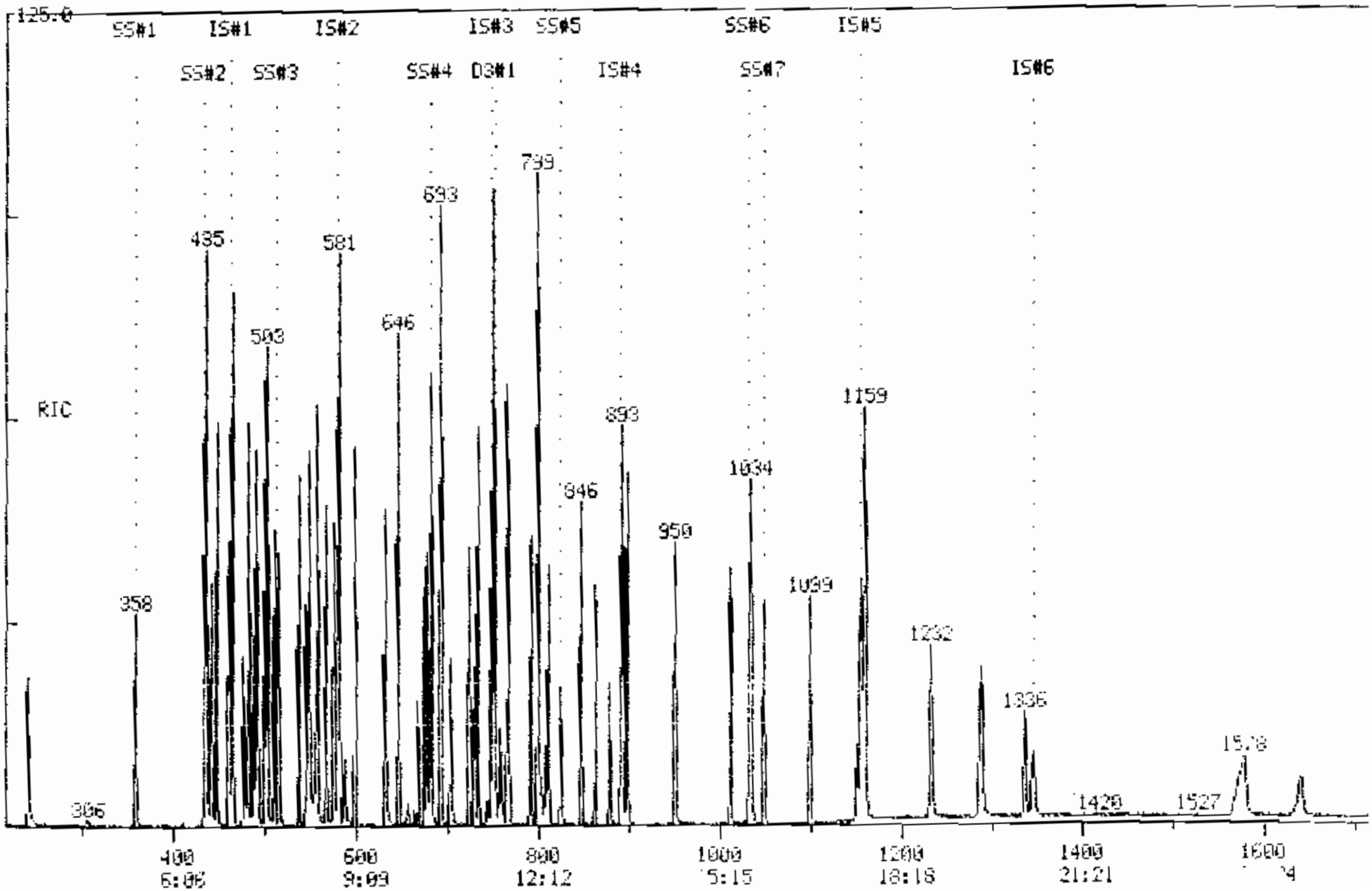
COMPUCHEM DATA: HG651206A22 SCANS 214 TO 1714

12/06/85 13:19:00

OUT OF 214 TO 1500

SAMPLE: 1UL SEMI STD 50NG 16277(2365) EXP 12/12/85 ON#22

CONDS.:



COMPUCHEM LABS

RIC COMPUCHEM DATA: HG851206A22 SCANS 1714 TO 1900
12/06/85 13:19:00 OUT OF 214 TO 1980
SAMPLE: 1UL SEMI STD 50NG 16277(2365) EXP 12/12/85 DA#22
CONDS.:

606720,

INTERNAL STANDARD AREA MONITOR

QUANTITATION REPORT FILE: HG851206A22

TA: HG851206A22.TI
12/06/85 13.19.00
SAMPLE: 1UL SEMI STD 50NG 16277(2365) EXP 12/12/85 ON#22
CONDS.:
SUBMITTED BY: #22 ANALYST: 874

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@ 605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
7	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
.	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#620 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

ppm, ppb (?)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	463	7:04	1	1.000	A BB	54946.	40.000 NG	0.97
2	42	241	3:41	1	0.521	A BV	74724.	50.000 NG	1.21
3	94	435	6:38	1	0.940	A BV	127206.	50.000 NG	1.21
4	93	437	6:40	1	0.944	A BV	88094.	50.000 NG	1.21
5	93	442	6:45	1	0.955	A#VV	106468.	50.000 NG	1.21
6	128	448	6:50	1	0.968	A BV	105406.	50.000 NG	1.21
7	146	460	7:01	1	0.994	A BV	97776.	50.000 NG	1.21
8	146	465	7:06	1	1.004	A VV	119026.	50.000 NG	1.21
9	108	476	7:16	1	1.028	A BV	32076.	50.000 NG	1.21
10	146	482	7:21	1	1.041	A BV	83856.	50.000 NG	1.21
11	108	488	7:27	1	1.054	A VV	74932.	50.000 NG	1.21
12	45	491	7:29	1	1.060	A BB	180138.	50.000 NG	1.21
13	108	500	7:38	1	1.080	A VV	86372.	50.000 NG	1.21
14	70	503	7:40	1	1.086	A BB	89404.	50.000 NG	1.21
15	117	510	7:47	1	1.102	A BB	42888.	50.000 NG	1.21
	77	516	7:52	1	1.114	A VV	97404.	50.000 NG	1.21
	136	579	8:50	17	1.000	A BV	180426.	40.000 NG	0.97
18	82	537	8:11	17	0.927	A BB	201264.	50.000 NG	1.21

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	545	8:19	17	0.941	A BV	45760.	50.000 NG	1.21
20	122	548	8:22	17	0.946	A*BV	76354.	50.000 NG	1.21
1	122	557	8:30	17	0.962	A VV	42828.	50.000 NG	1.21
22	93	557	8:30	17	0.962	A BV	104238.	50.000 NG	1.21
23	162	567	8:39	17	0.979	A BB	64462.	50.000 NG	1.21
24	180	575	8:46	17	0.993	A BB	77186.	50.000 NG	1.21
25	128	581	8:52	17	1.003	A VV	249522.	50.000 NG	1.21
26	127	587	8:57	17	1.014	A VV	36244.	50.000 NG	1.21
27	225	599	9:08	17	1.035	A BB	46784.	50.000 NG	1.21
28	107	631	9:37	17	1.090	A BV	80152.	50.000 NG	1.21
29	142	646	9:51	17	1.116	A VV	144072.	50.000 NG	1.21
30	164	748	11:25	30	1.000	A BB	83864.	40.000 NG	0.97
31	237	668	10:11	30	0.893	A BB	22434.	50.000 NG	1.21
32	196	674	10:17	30	0.901	A BV	40540.	50.000 NG	1.21
33	196	678	10:21	30	0.906	A VV	40670.	50.000 NG	1.21
34	162	692	10:33	30	0.925	A BB	141010.	50.000 NG	1.21
35	65	703	10:43	30	0.940	A BV	47390.	50.000 NG	1.21
36	163	723	11:02	30	0.967	A BB	150854.	50.000 NG	1.21
37	152	733	11:11	30	0.980	A BV	187504.	50.000 NG	1.21
38	138	743	11:20	30	0.993	A BB	7246.	50.000 NG	1.21
39	153	751	11:27	30	1.004	A BB	134564.	50.000 NG	1.21
40	184	752	11:28	30	1.005	A BB	5412	50.000 NG	1.21
41	139	757	11:33	30	1.012	A BV	22348.	50.000 NG	1.21
42	168	766	11:41	30	1.024	A BV	168108.	50.000 NG	1.21
43	89	767	11:42	30	1.025	A BB	42556.	50.000 NG	1.21
44	165	729	11:07	30	0.975	A BB	25970.	50.000 NG	1.21
45	149	791	12:04	30	1.057	A VV	162698.	50.000 NG	1.21
46	204	799	12:11	30	1.068	A BB	61376.	50.000 NG	1.21
7	166	800	12:12	30	1.070	A BB	135120.	50.000 NG	1.21
48	138	802	12:14	30	1.072	A BV	18030.	50.000 NG	1.21
49	188	891	13:35	49	1.000	A BV	115184.	40.000 NG	0.97
50	198	807	12.19	49	0.906	A BB	9382.	50.000 NG	1.21
51	169	810	12.21	49	0.909	A BB	66058	50.000 NG	1.21
52	248	846	12:54	49	0.949	A BB	33074.	50.000 NG	1.21
53	284	861	13:08	49	0.966	A BB	46418.	50.000 NG	1.21
54	266	878	13:24	49	0.985	A BV	16932.	50.000 NG	1.21
55	178	893	13:37	49	1.002	A BV	166240.	50.000 NG	1.21
56	178	898	13:42	49	1.008	A VB	172190.	50.000 NG	1.21
57	149	950	14:29	49	1.066	A BV	224096.	50.000 NG	1.21
58	202	1011	15:25	49	1.135	A BV	160374.	50.000 NG	1.21
59	240	1155	17:37	59	1.000	A BV	80258.	40.000 NG	0.97
60	184	1032	15:44	59	0.894	A BB	1816.	50.000 NG	1.21
61	202	1034	15:46	59	0.895	A VV	169844.	50.000 NG	1.21
62	149	1099	16:46	59	0.952	A BV	75978.	50.000 NG	1.21
63	252	1150	17:32	59	0.996	A BB	20334.	50.000 NG	1.21
64	228	1154	17:36	59	0.999	A BV	123610.	50.000 NG	1.21
65	149	1159	17:41	59	1.003	A VV	116524.	50.000 NG	1.21
66	228	1158	17:40	59	1.003	A VV	117758.	50.000 NG	1.21
67	264	1346	20:32	67	1.000	A BV	69550.	40.000 NG	0.97
68	149	1231	18:47	67	0.915	A BB	144716.	50.000 NG	1.21
69	252	1289	19:40	67	0.958	A*BV	~~220916~~ 110 154	100.000 NG	2.42
70	252	1289	19:40	67	0.958	A*BV	~~220516~~ 110 156	100.000 NG	2.42
71	252	1336	20:23	67	0.993	A BV	103398.	50.000 NG	1.21
2	276	1574	24:01	67	1.169	A BV	107740.	50.000 NG	1.21
3	278	1578	24:04	67	1.172	A VV	88576.	50.000 NO	1.21
74	276	1641	25:02	67	1.219	A BV	93844.	50.000 NG	1.21

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	358	5:28	1	0.773	A BV	79268.	50.000 NG	1.21
76	99	435	6:38	1	0.940	A BV	96970.	50.000 NG	1.21
7	82	514	7:50	17	0.888	A BB	97072.	50.000 NG	1.21
3	172	682	10:24	30	0.912	A BV	144578.	50.000 NG	1.21
79	141	824	12:34	30	1.102	A BB	10592.	50.000 NG	1.21
80	244	1048	15:59	59	0.907	A BV	101694.	50.000 NG	1.21
81	212	1032	15:44	59	0.894	A BV	139384.	50.001 NG	1.21
82	216	693	10:34	17	1.197	A BB	65418.	50.000 NG	1.21

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:04	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:41	1.00	10.000	0.05	50.00	50.00	1.088	1.088	1.00
3	6:38	1.00	10.000	0.09	50.00	50.00	1.852	1.852	1.00
4	6:40	1.00	10.000	0.09	50.00	50.00	1.283	1.283	1.00
5	6:45	1.00	10.000	0.10	50.00	50.00	1.550	1.550	1.00
6	6:50	1.00	10.000	0.10	50.00	50.00	1.535	1.535	1.00
7	7:01	1.00	10.000	0.10	50.00	50.00	1.424	1.424	1.00
8	7:06	1.00	10.000	0.10	50.00	50.00	1.733	1.733	1.00
9	7:16	1.00	10.000	0.10	50.00	50.00	0.467	0.467	1.00
10	7:21	1.00	10.000	0.10	50.00	50.00	1.221	1.221	1.00
11	7:27	1.00	10.000	0.11	50.00	50.00	1.091	1.091	1.00
12	7:29	1.00	10.000	0.11	50.00	50.00	2.623	2.623	1.00
13	7:36	1.00	10.000	0.11	50.00	50.00	1.258	1.258	1.00
14	7:40	1.00	10.000	0.11	50.00	50.00	1.302	1.302	1.00
15	7:47	1.00	10.000	0.11	50.00	50.00	0.624	0.624	1.00
16	7:52	1.00	10.000	0.11	50.00	50.00	1.418	1.418	1.00
17	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:11	1.00	10.000	0.09	50.00	50.00	0.892	0.892	1.00
	8:19	1.00	10.000	0.09	50.00	50.00	0.203	0.203	1.00
..ン	8:22	1.00	10.000	0.09	50.00	50.00	0.339	0.339	1.00
21	8:30	1.00	50.000	0.02	50.00	50.00	0.190	0.190	1.00
22	8:30	1.00	10.000	0.10	50.00	50.00	0.462	0.462	1.00
23	8:39	1.00	10.000	0.10	50.00	50.00	0.286	0.286	1.00
24	8:46	1.00	10.000	0.10	50.00	50.00	0.342	0.342	1.00
25	8:52	1.00	10.000	0.10	50.00	50.00	1.106	1.106	1.00
26	8:57	1.00	10.000	0.10	50.00	50.00	0.161	0.161	1.00
27	9:08	1.00	10.000	0.10	50.00	50.00	0.207	0.207	1.00
28	9:37	1.00	10.000	0.11	50.00	50.00	0.355	0.355	1.00
29	9:51	1.00	10.000	0.11	50.00	50.00	0.639	0.639	1.00
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:11	1.00	10.000	0.09	50.00	50.00	0.214	0.214	1.00
32	10:17	1.00	10.000	0.09	50.00	50.00	0.387	0.387	1.00
33	10:21	1.00	50.000	0.02	50.00	50.00	0.388	0.388	1.00
34	10:33	1.00	10.000	0.09	50.00	50.00	1.345	1.345	1.00
35	10:43	1.00	50.000	0.02	50.00	50.00	0.452	0.452	1.00
36	11:02	1.00	10.000	0.10	50.00	50.00	1.439	1.439	1.00
37	11:11	1.00	10.000	0.10	50.00	50.00	1.789	1.789	1.00
38	11:20	1.00	50.000	0.02	50.00	50.00	0.069	0.069	1.00
39	11:27	1.00	10.000	0.10	50.00	50.00	1.284	1.284	1.00
40	11:28	1.00	50.000	0.02	50.00	50.00	0.052	0.052	1.00
41	11:33	1.00	50.000	0.02	50.00	50.00	0.213	0.213	1.00
42	11:41	1.00	10.000	0.10	50.00	50.00	1.604	1.604	1.00
43	11:48	1.00	10.000	0.10	50.00	50.00	0.406	0.406	1.00
..4	11:07	1.00	10.000	0.10	50.00	50.00	0.248	0.248	1.00
	12:04	1.00	10.000	0.11	50.00	50.00	1.552	1.552	1.00
46	12:11	1.00	10.000	0.11	50.00	50.00	0.585	0.585	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	12:12	1.00	10.000	0.11	50.00	50.00	1.289	1.289	1.00
48	12:14	1.00	50.000	0.02	50.00	50.00	0.172	0.172	1.00
9	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:19	1.00	50.000	0.02	50.00	50.00	0.065	0.065	1.00
51	12:21	1.00	10.000	0.09	50.00	50.00	0.459	0.459	1.00
52	12:54	1.00	10.000	0.09	50.00	50.00	0.230	0.230	1.00
53	13:08	1.00	10.000	0.10	50.00	50.00	0.322	0.322	1.00
54	13:24	1.00	50.000	0.02	50.00	50.00	0.118	0.118	1.00
55	13:37	1.00	10.000	0.10	50.00	50.00	1.155	1.155	1.00
56	13:42	1.00	10.000	0.10	50.00	50.00	1.196	1.196	1.00
57	14:29	1.00	10.000	0.11	50.00	50.00	1.556	1.556	1.00
58	15:25	1.00	10.000	0.11	50.00	50.00	1.114	1.114	1.00
59	17:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:44	1.00	50.000	0.02	50.00	50.00	0.018	0.018	1.00
61	15:46	1.00	10.000	0.09	50.00	50.00	1.693	1.693	1.00
62	16:46	1.00	10.000	0.10	50.00	50.00	0.757	0.757	1.00
63	17:32	1.00	20.000	0.05	50.00	50.00	0.203	0.203	1.00
64	17:36	1.00	10.000	0.10	50.00	50.00	1.232	1.232	1.00
65	17:41	1.00	10.000	0.10	50.00	50.00	1.161	1.161	1.00
66	17:40	1.00	10.000	0.10	50.00	50.00	1.174	1.174	1.00
67	20:32	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:47	1.00	10.000	0.09	50.00	50.00	1.665	1.665	1.00
69	19:40	1.00	10.000	0.10	100.00	100.00	1.267	1.267	1.00
70	19:40	1.00	10.000	0.10	100.00	100.00	1.267	1.267	1.00
71	20:23	1.00	10.000	0.10	50.00	50.00	1.189	1.189	1.00
72	24:01	1.00	10.000	0.12	50.00	50.00	1.239	1.239	1.00
73	24.04	1.00	10.000	0.12	50.00	50.00	1.019	1.019	1.00
74	25:02	1.00	10.000	0.12	50.00	50.00	1.079	1.079	1.00
5	5:29	1.00	0.742	1.04	50.00	50.00	1.154	1.154	1.00
76	6:38	1.00	0.948	0.99	50.00	50.00	1.412	1.412	1.00
77	7.50	1.00	0.875	1.01	50.00	50.00	0.430	0.430	1.00
78	10:24	1.00	0.906	1.01	50.00	50.00	1.379	1.379	1.00
79	12:34	1.00	1.118	0.99	50.00	50.00	0.101	0.101	1.00
80	15:59	1.00	0.907	1.00	50.00	50.00	1.014	1.014	1.00
81	15:44	1.00	10.000	0.09	50.00	50.00	1.389	1.389	1.00
82	10:34	1.00	1.000	1.20	50.00	50.00	0.290	0.290	1.00

ACID

	% RECOVERY
2 FLUOROPHENOL	$\frac{46.9}{50} \times 100 = 94$
DS PHENOL	$\frac{47.2}{50} \times 100 = 94$
TRIBROMOPHNOL	$\frac{38}{50} \times 100 = 76$

$$\% \text{ RECOVERY} = \frac{\text{QUANT REPORT VALUE}}{50} \times 100$$

% RECOVERY MUST BE GREATER THAN 75 %

COMMENTS OR CORRECTIVE ACTION TAKEN

QUANTITATION REPORT FILE: SCB51206A22

DATA: SCB51206A22.TI
12/06/85 14:29:00
SAMPLE 10L SURR CHK 16272(392) EXP12/11/85 ON#22
COMMENTS:
SUBMITTED BY: #22 ANALYST: 874

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#494 D4-1,4-DICHLOROBENZENE (IS#1)
2	#460 D8-NAPHTHALENE (IS#2)
3	#495 D10-ACENAPHTHENE (IS#3)
4	#619 2-FLUOROPHENOL (SS#1)
5	#612 D5-PHENOL (SS#2)
6	#628 2,4,6-TRIBROMOPHENOL (SS#5)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	464	7:05	1	1.000	A BV	46076.	40.000 NG	15.85
2	136	580	8:51	2	1.000	A BV	135910.	40.000 NG	15.85
3	164	748	11:25	3	1.000	A BB	67100.	40.000 NG	15.85
4	112	358	5:28	1	0.772	A BV	62370.	46.915 NG	18.59
5	99	434	6:37	1	0.935	A BV	77122.	47.421 NG	18.79
6	141	825	12:35	3	1.103	A BB	6456.	38.090 NG	15.09

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:04	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	8.50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
4	5:28	1.00	0.742	1.04	46.91	50.00	1.083	1.154	0.94
5	6:36	1.00	0.948	0.99	47.42	50.00	1.339	1.412	0.95
6	12.34	1.00	1.118	0.99	38.09	50.00	0.077	0.101	0.76

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 13:06 Shift(s) (A) (B) (C)
Time Tune Expires 1:06 Date 12/6/85
Analysis Type SEMI

Run Log

REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition, Etc.)
	DH851206A22		12/6/85	13:06	DFTPP		1ul	824		2785	16282 (2050)
	HH851206A22		12/6/85	13:20	50ng		1ul	824		"	16277 (2365)
	SH851206A22		12/6/85	14:29	5ng CH4		1ul	824		"	16272 (392)
IL	GH069771A22		12/6/85	14:57	Blank	5195	1ul	824			IL
	GJ069771A22		12/6/85	15:27	Blank	5195	1ul	824			
SH	GH069532B22		12/6/85	16:11	BLANK	5195	1.0ul	802		2786	
	GH069533B22		12/6/85	17:01	BLANK	5195	1.0ul	802		2786	69533
	GRJ66994B22		12/6/85	17:53	SS#2736	5195	1.0ul	802		2786	66994AJ SS (Known Amts)
	GK068387B22		12/6/85	18:37	[illegible]	VRS	1.0ul	802		2786	50477
	GK068388B22		12/6/85	19:26	SS#2731	VRS	1.0ul	802		2786	SS
	GK068387B22		12/6/85	21:13	SS#2731	VRS	1.0ul	802		2786	SS
SH	GH069691B22		12/6/85	21:57	BLANK	TEST	1.0ul	802		2786	(69691 TEST-BLANK
	GH065390B22		12/6/85	23:02		TEST	1.0ul	802		2786	
	GR067632B22		12/6/85	:	DD451	5195	1.0ul	802		2786	
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			/ /	:							

12/19/85

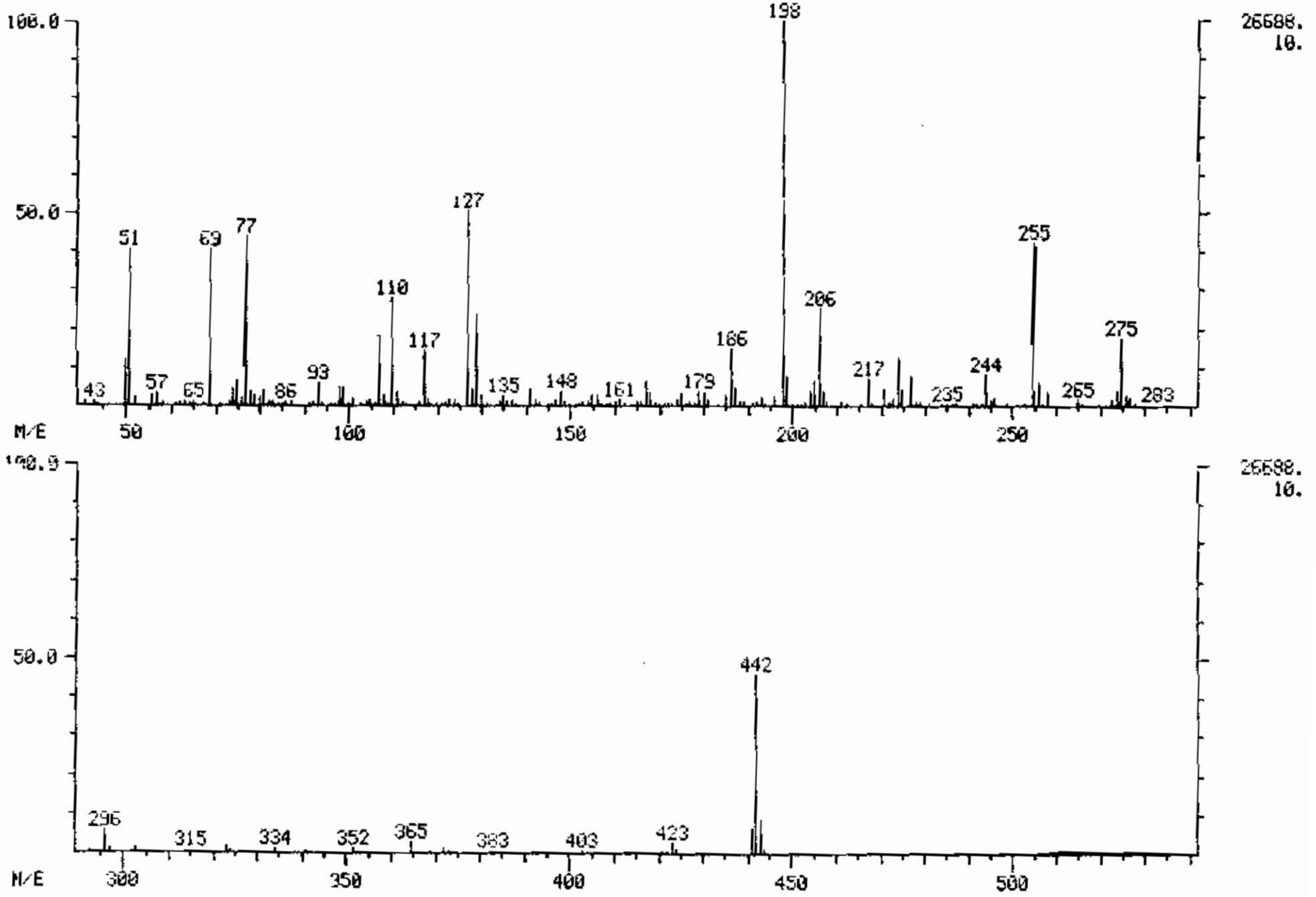
Press Hard, M Copies

COMPUCHEM LABS

MASS SPECTRUM
12/04/85 16:39:00 + 4:39
SAMPLE: 1UL 16156-7050 DFTPP

DATA: DF851204B21 #310

BASE M/E: 198
RIC: 229120.

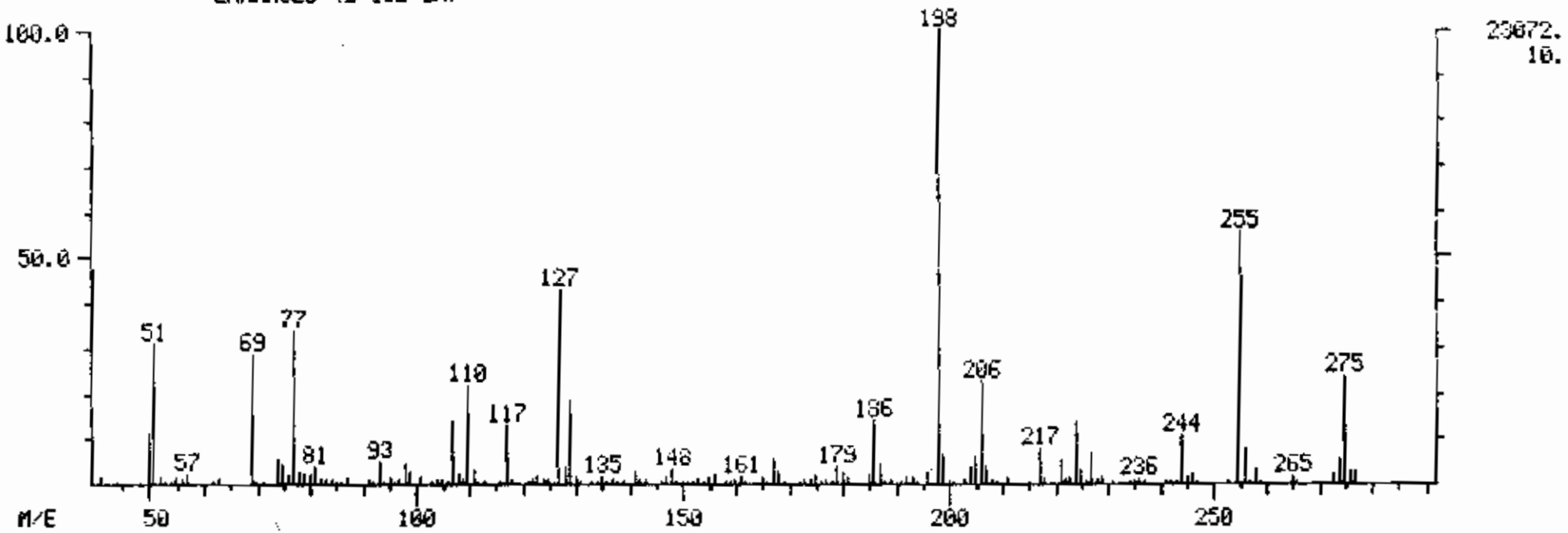


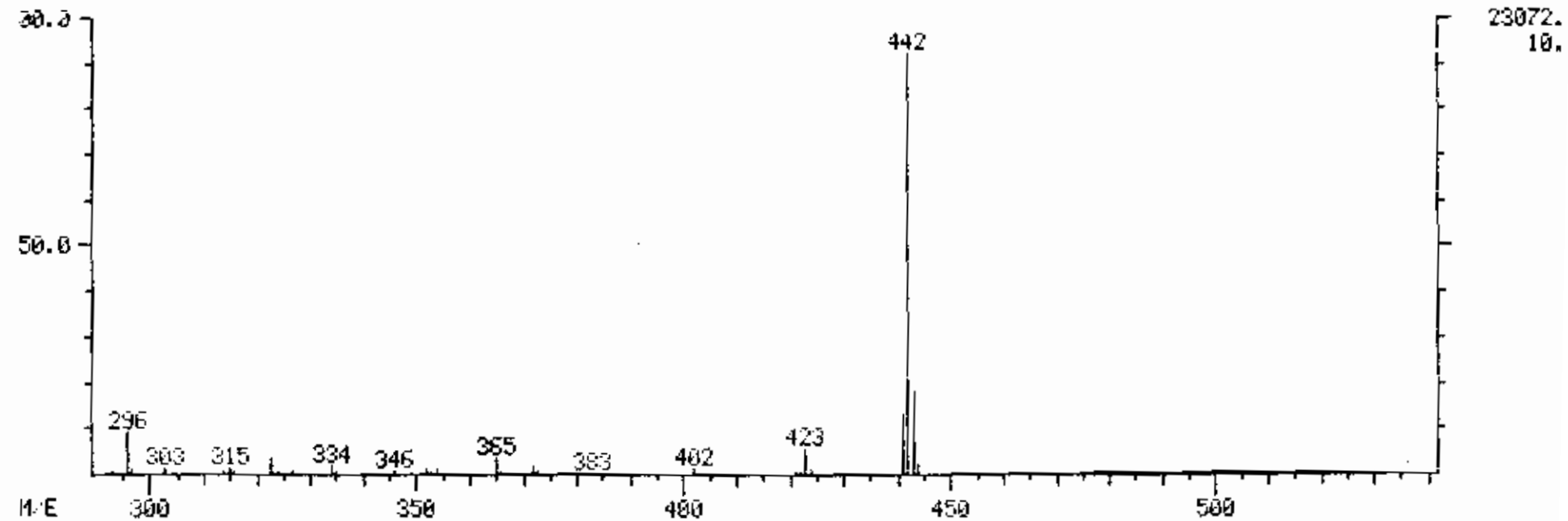
COMPUCHEM LABS

MASS SPECTRUM
12/05/85 7:01:00 + 4:33
SAMPLE: 1 UL DFTPP #16282(7050)
ENHANCED (S 15B 2N)

DATA: DH851205C21 #304

BASE M/E: 198
RIC: 200704.





COMPUCHEM LABS

MASS LIST DATA: DH851205C21 # 304 BASE M/E: 198
12/05/85 7:01:00 + 4:33 RIC: 200704.
SAMPLE: 1 UL DPTPP #16282(7050)
ENHANCED (S 15B 2N OT)

41 0.00 MINIMA MIN INTEN: 64. MAX INTEN: 23072.
447 # 0 MAXIMA

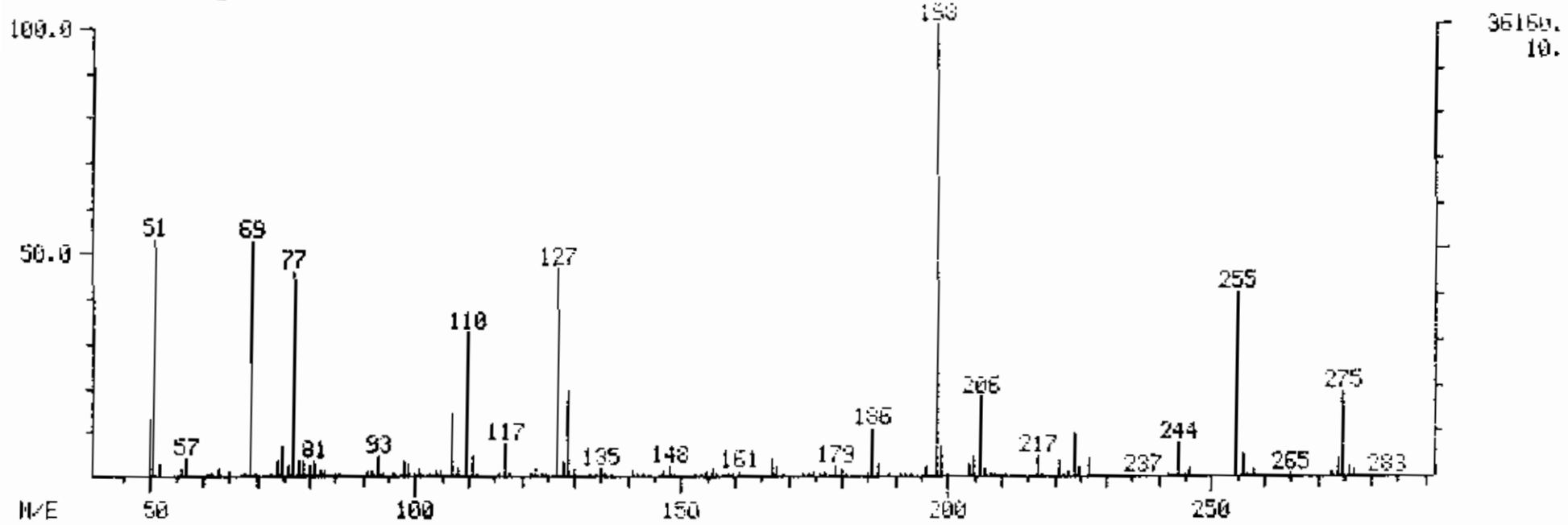
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	1.56	116	0.83	176	0.37	246	2.40
44	0.58	117	12.92	177	1.11	247	0.72
50	11.18	118	1.16	178	0.29	253	0.39
51	30.83	120	0.28	179	3.80	255	55.27
52	1.93	121	0.47	180	2.54	256	8.11
53	0.33	122	1.37	181	1.50	257	0.59
54	0.69	123	1.43	185	2.46	258	3.51
55	1.51	124	0.95	186	13.85	259	0.55
56	0.89	125	1.30	187	4.78	265	1.56
57	2.20	126	0.36	188	0.58	266	0.49
62	0.65	127	42.79	189	0.98	273	2.10
63	1.39	128	4.02	191	0.65	274	5.43
69	28.54	129	18.76	192	1.48	275	23.61
70	0.46	130	1.82	193	1.69	276	3.02
71	0.56	131	0.53	194	0.51	277	2.58
74	5.44	133	0.64	196	2.73	278	0.38
75	4.75	134	0.80	198	100.00	281	0.49
76	2.40	135	1.89	199	6.77	285	0.36
77	33.95	136	0.72	200	0.54	293	0.65
78	2.58	137	1.12	201	0.34	296	8.95
79	2.07	138	0.31	203	0.89	297	0.97
80	2.02	139	0.29	204	3.70	303	1.17
81	3.75	141	3.09	205	6.00	314	0.35
82	1.34	142	0.97	206	22.68	315	0.93
83	1.21	143	0.95	207	3.79	316	0.54
84	0.94	146	0.44	208	0.87	323	3.28
85	0.71	147	1.68	209	0.31	324	0.64
86	0.67	148	3.40	211	1.50	327	0.55
87	1.43	149	0.77	215	0.46	333	0.28
91	0.85	150	0.29	217	7.66	334	1.92
92	0.81	151	0.47	218	1.07	335	0.55
93	5.21	152	0.73	221	4.98	346	0.54
94	0.41	153	1.23	222	1.15	352	1.22
95	1.50	154	0.68	223	1.56	353	0.46
96	0.74	155	1.79	224	13.30	354	1.01
97	1.30	156	2.49	225	3.24	365	3.65
98	4.26	158	0.46	226	0.30	366	0.38
99	2.93	159	0.36	227	6.86	372	1.55
101	1.68	160	1.01	228	1.37	373	0.33
103	0.50	161	1.72	229	1.49	402	0.93
104	1.12	162	0.49	231	0.42	403	0.84
105	1.20	165	1.43	234	0.58	404	0.38
106	0.35	166	0.84	235	0.36	421	0.68
107	14.01	167	5.76	236	0.97	422	0.34
108	2.00	168	3.02	237	0.60	423	5.54
109	1.01	169	0.67	241	0.42	424	0.88
110	22.05	172	0.64	242	0.40	441	12.76
111	3.16	173	0.97	243	0.62	442	92.09
112	0.75	174	1.09	244	10.80	443	18.24
113	0.66	175	2.04	245	1.72	444	1.99

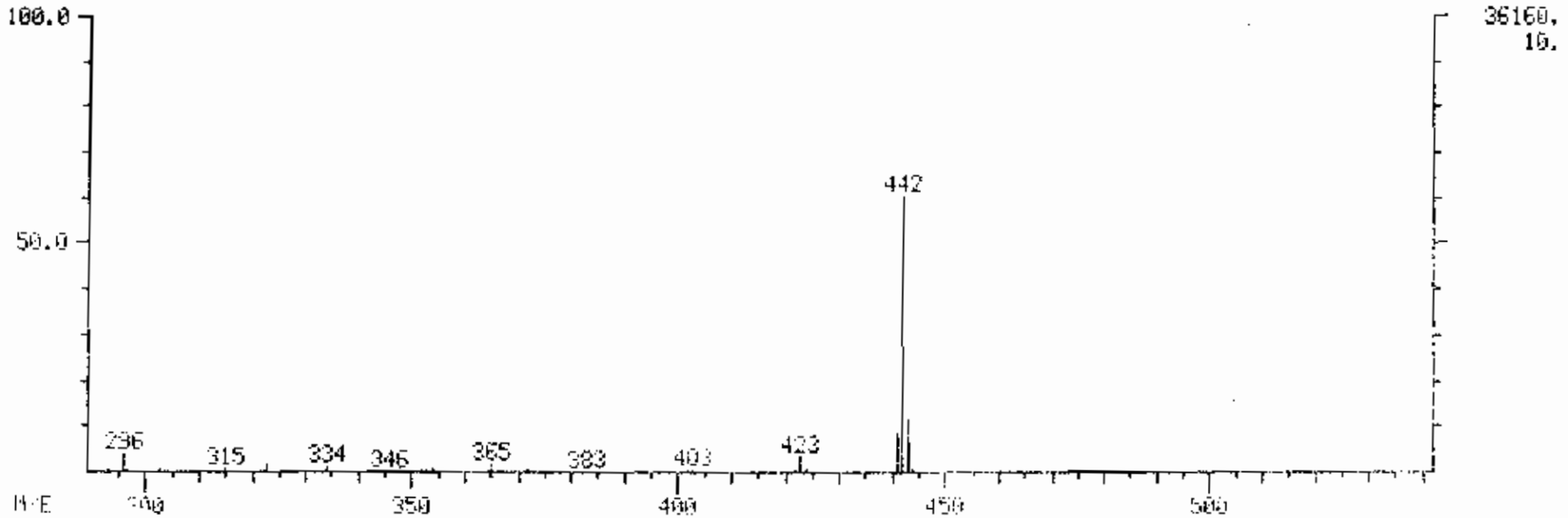
COMPUCHEM LABS

MASS SPECTRUM
12/06/85 13:06:00 + 4:35
SAMPLE: 1UL DFTPP 16282(7050) EXP 12/12/85 ON#22
ENHANCED (S 158 2N)

DATA: DH851206A22 #300

BASE M/E: 198
RIC: 273040.





COMPUCHEM LABS

MASS LIST DATA: DH851206A22 # 300 BASE H/E: 196
12/06/85 13 06:00 + 4:35 RIC: 279040.
SAMPLE: 1UL DFTPP 16282(7050) EXP 12/12/85 ON#22
'NHANCED (S 150 2N 0T)

50 0 00 MINIMA MIN INTEN. 0. MAX INTEN: 36160.
444 # 0 MAXIMA

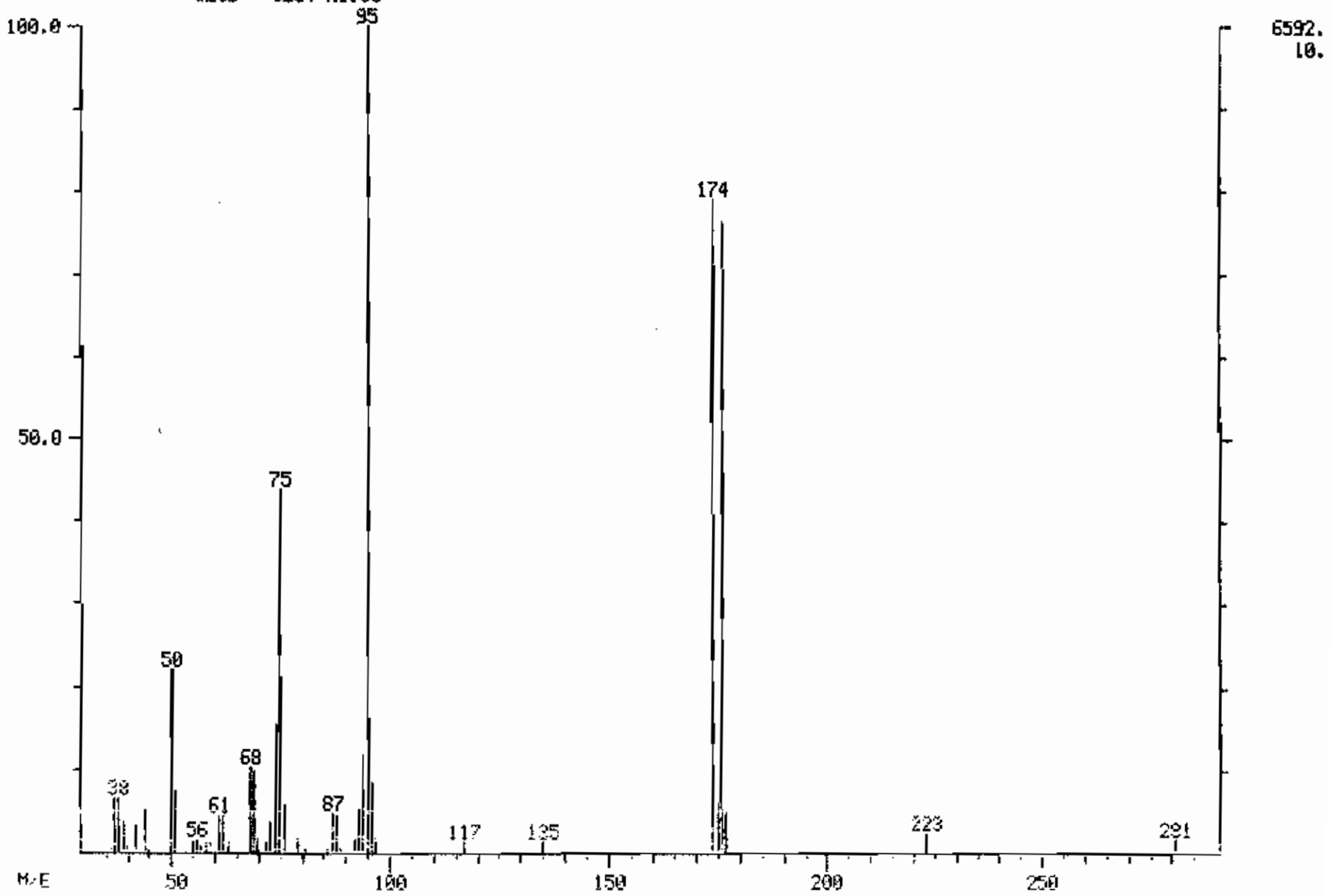
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
50	13.01	117	7.20	177	1.05	255	40.62
51	53.27	118	0.50	179	2.51	256	5.35
52	2.67	119	0.10	180	1.98	257	0.43
56	1.97	122	0.74	181	0.70	258	1.72
57	4.00	123	1.51	185	1.32	259	0.13
60	0.14	124	0.41	186	11.01	265	0.56
61	0.51	125	0.56	187	3.26	266	0.16
62	0.61	127	46.46	189	0.46	273	1.13
63	1.97	128	3.27	191	0.41	274	3.93
64	0.27	129	19.07	192	0.95	275	18.65
65	1.41	130	1.65	193	0.98	276	2.49
66	0.20	131	0.22	194	0.20	277	1.50
67	0.27	132	0.10	196	2.14	283	0.17
68	0.71	133	0.33	197	0.16	285	0.13
69	52.48	134	0.44	198	100.00	293	0.31
70	0.38	135	1.60	199	6.65	296	4.15
73	0.40	136	0.46	200	0.45	297	0.51
74	3.45	137	0.58	202	0.19	303	0.43
75	6.56	138	0.12	203	0.21	315	0.41
76	2.19	141	1.91	204	2.61	316	0.11
77	45.56	142	0.66	205	4.33	323	1.87
78	3.24	143	0.56	206	17.41	324	0.16
79	3.25	144	0.13	207	2.42	327	0.14
80	2.54	145	0.20	208	0.49	333	0.08
81	3.42	146	0.25	209	0.41	334	0.99
82	0.87	147	1.30	210	0.25	335	0.14
83	0.97	148	2.13	211	0.77	341	0.15
85	0.80	149	0.48	216	0.13	346	0.10
86	0.77	151	0.13	217	4.65	352	0.46
91	1.00	152	0.15	218	0.57	353	0.33
92	1.06	153	0.56	221	3.51	354	0.64
93	4.34	154	0.48	222	0.51	365	1.80
94	0.33	155	1.08	223	0.94	372	0.93
96	0.45	156	1.90	224	9.88	383	0.15
98	3.47	157	0.34	225	2.31	402	0.32
99	3.08	158	0.32	227	3.73	403	0.59
100	0.29	159	0.38	228	0.41	421	0.26
101	1.76	160	0.66	229	0.77	422	0.52
102	0.16	161	0.96	231	0.35	423	3.51
103	0.52	162	0.08	234	0.10	424	0.77
104	1.02	165	0.64	235	0.12	441	8.24
105	1.05	166	0.50	237	0.13	442	60.71
106	0.17	167	3.92	241	0.12	443	11.70
107	13.85	168	2.48	242	0.42	444	0.81
108	1.80	169	0.40	243	0.10		
110	32.12	172	0.20	244	7.62		
111	4.74	173	0.33	245	0.39		
112	0.39	174	0.74	246	1.91		
113	0.17	175	1.25	247	0.17		
116	0.69	176	0.41	249	0.24		

COMPUCHEM LABS

MASS SPECTRUM
11/21/85 12:44:00 + 11:08
SAMPLE: 2 UL BFB # 16068
#219 - #234 X1.00

DATA: BF851121A12 #219

BASE M/E: 95
RIC: 31584.



COMPUCHEM LABS

MASS LIST DATA: BF851121A12 # 219 BASE M/E: 95
11/21/85 12:44:00 + 11:08 RIC: 31584.
SAMPLE: 2 UL BFB # 16068
219 - #234 X1.00

36 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 6592.
281 # 0 MAXIMA

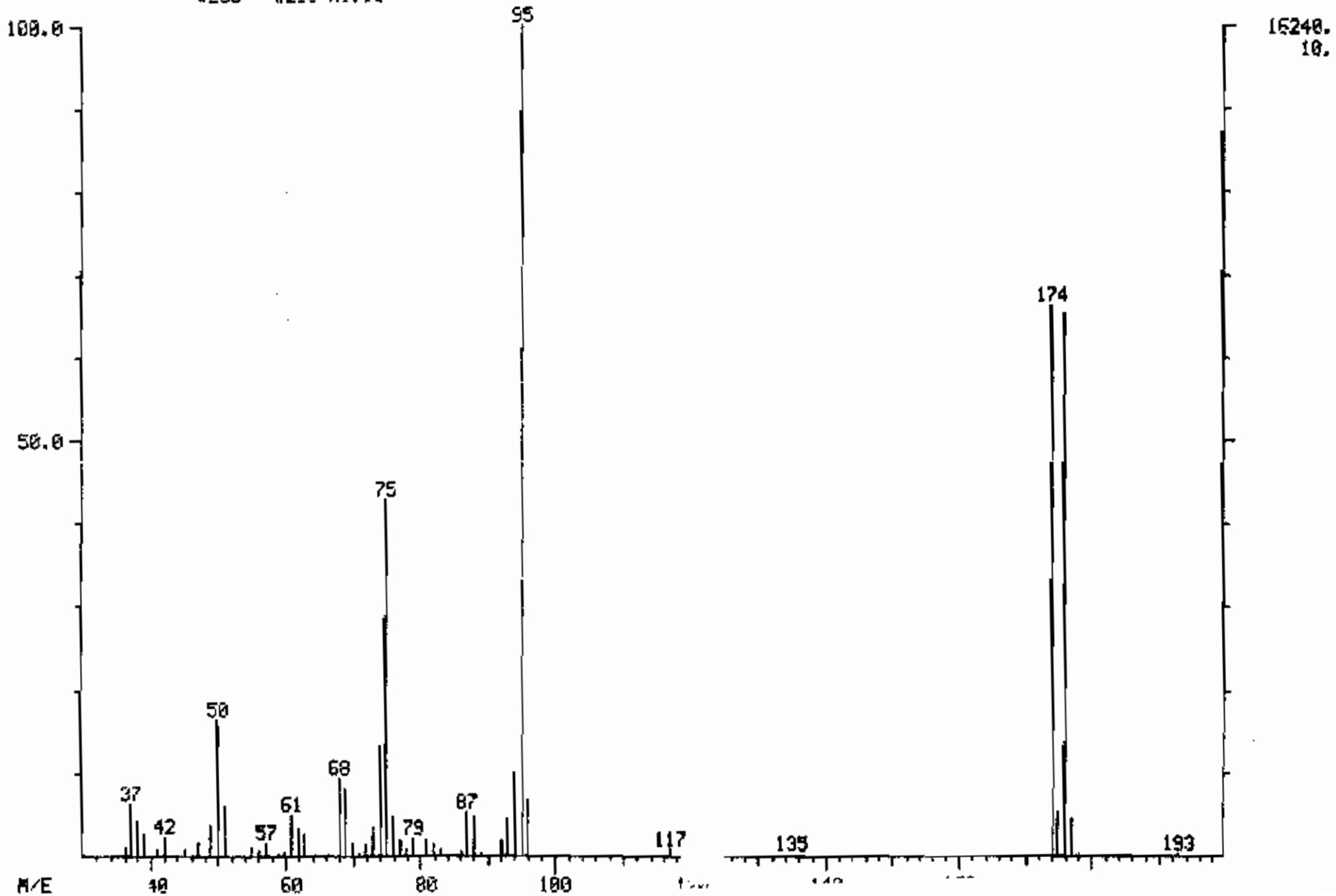
MASS	% RA
36	0.44
37	6.52
38	6.67
39	3.69
40	0.76
42	3.32
44	5.31
45	0.24
50	21.94
51	7.71
55	1.30
56	1.58
57	0.90
58	1.41
59	1.43
61	4.54
62	4.51
63	1.26
68	10.10
69	9.74
70	1.85
72	1.18
73	3.56
74	15.56
75	43.75
76	5.78
79	1.74
81	0.52
86	0.39
87	4.66
88	4.55
89	0.56
92	1.64
93	5.19
94	11.85
95	100.00
96	8.33
97	1.74
117	1.18
135	1.23
174	79.00
175	5.93
176	76.46
177	5.04
223	2.47
81	1.55

COMPUCHEM LABS

MASS SPECTRUM
11/22/85 2:03:00 + 12:00
SAMPLE: 2 UL BFB(16120)
#236 - #216 X1.00

DATA: BF851122C12 #236

BASE M/E: 95
RIC: 70016.



COMPUCHEM LABS

MASS LIST DATA: BFB51122C12 # 236 BASE M/E: 95
11/22/85 2:03:00 + 12:00 RIC: 70016.
\MPLE: 2 UL BFB(16120)
236 - #216 X1.00

36 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 16240.
193 # 0 MAXIMA

MASS	% RA	MASS	% RA
36	1.00	177	4.56
37	6.29	193	0.30
38	4.21		
39	2.69		
41	0.91		
42	2.27		
45	0.90		
47	1.64		
49	3.74		
50	16.55		
51	5.93		
55	0.99		
56	0.78		
57	1.54		
59	0.27		
60	0.51		
61	4.88		
62	3.52		
63	2.67		
68	9.43		
69	8.09		
70	1.62		
71	0.22		
72	1.24		
73	3.32		
74	13.33		
75	42.81		
76	4.70		
77	1.80		
78	0.81		
79	1.98		
81	1.79		
82	1.38		
83	0.91		
86	0.50		
87	5.19		
88	4.61		
89	0.16		
92	1.85		
93	4.52		
94	9.90		
95	100.00		
96	6.80		
97	0.30		
115	0.05		
17	0.89		
.35	0.33		
174	66.21		
175	5.19		
176	65.22		

COMPUCHEM LABS

MASS LIST DATA: BJB51122C13 # 214 BASE M/E: 95
11/22/85 8:08:00 + 10:53 RIC: 34688.
SAMPLE: 2 UL BFB(16120)

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 7864.
207 # 0 MAXIMA

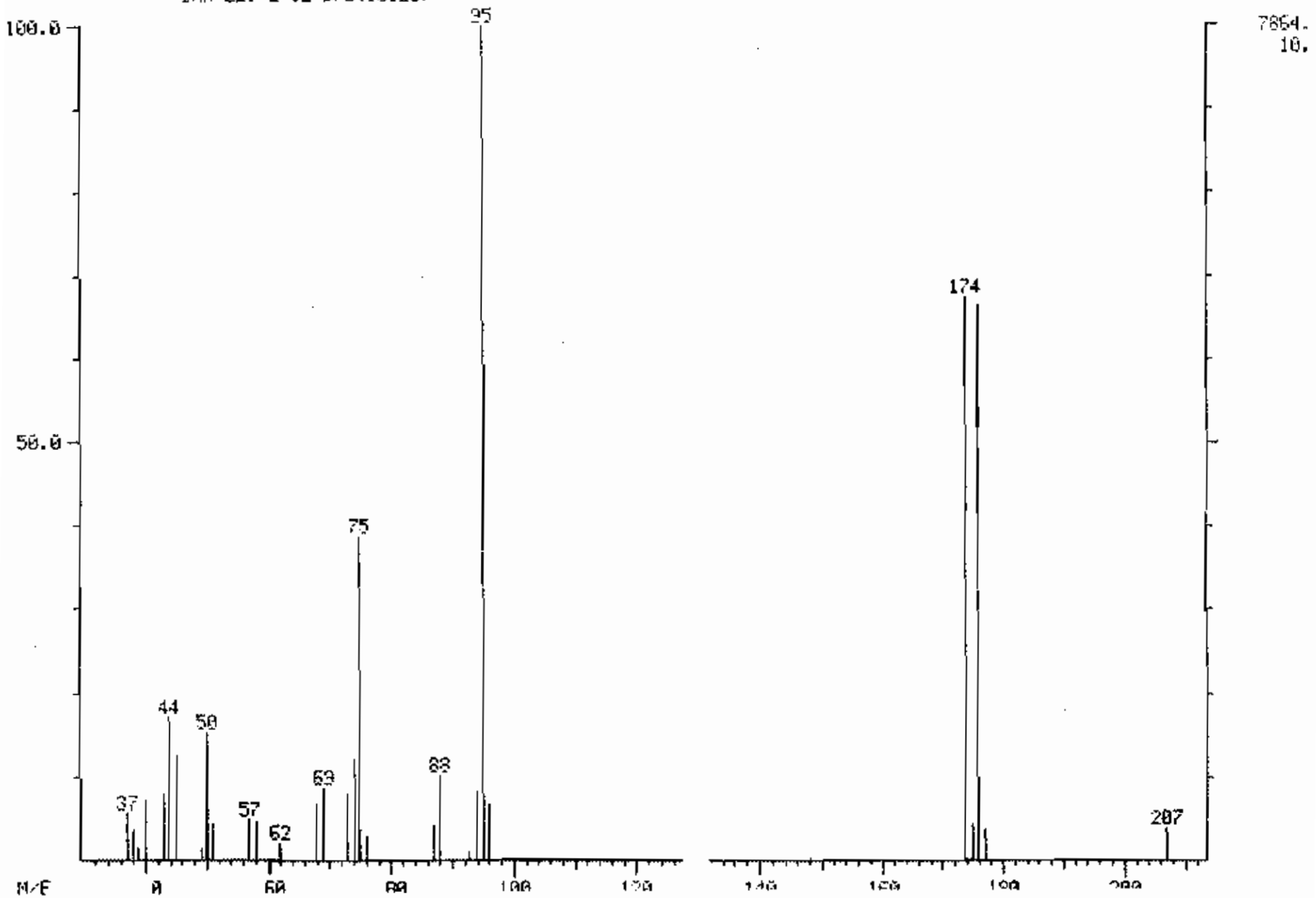
MASS	% RA
37	5.73
38	3.65
39	1.56
40	7.11
43	7.87
44	17.22
45	12.46
49	1.17
50	15.39
51	4.31
57	4.92
58	4.69
62	2.12
68	5.55
69	8.80
73	7.95
74	11.88
75	38.76
76	2.90
87	4.11
88	10.12
93	0.99
94	8.38
95	100.00
96	5.73
174	67.45
175	4.43
176	66.43
177	3.59
207	3.76

COMPUCHEM LABS

MASS SPECTRUM
11/22/85 8:08:00 + 10:52
SAMPLE: 2 UL BTB(16120)

DATA: BJ851122013 #214

BASE M/E: 95
RIC: 34688.



Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Compuchem
Lab Sample ID No: CB851121A1C
Sample matrix: liquid
Data Release
Authorized By: _____

Case: ULS
GC Report No: _____
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed: 11-21-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	2.1	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	2.3	J	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes stating results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

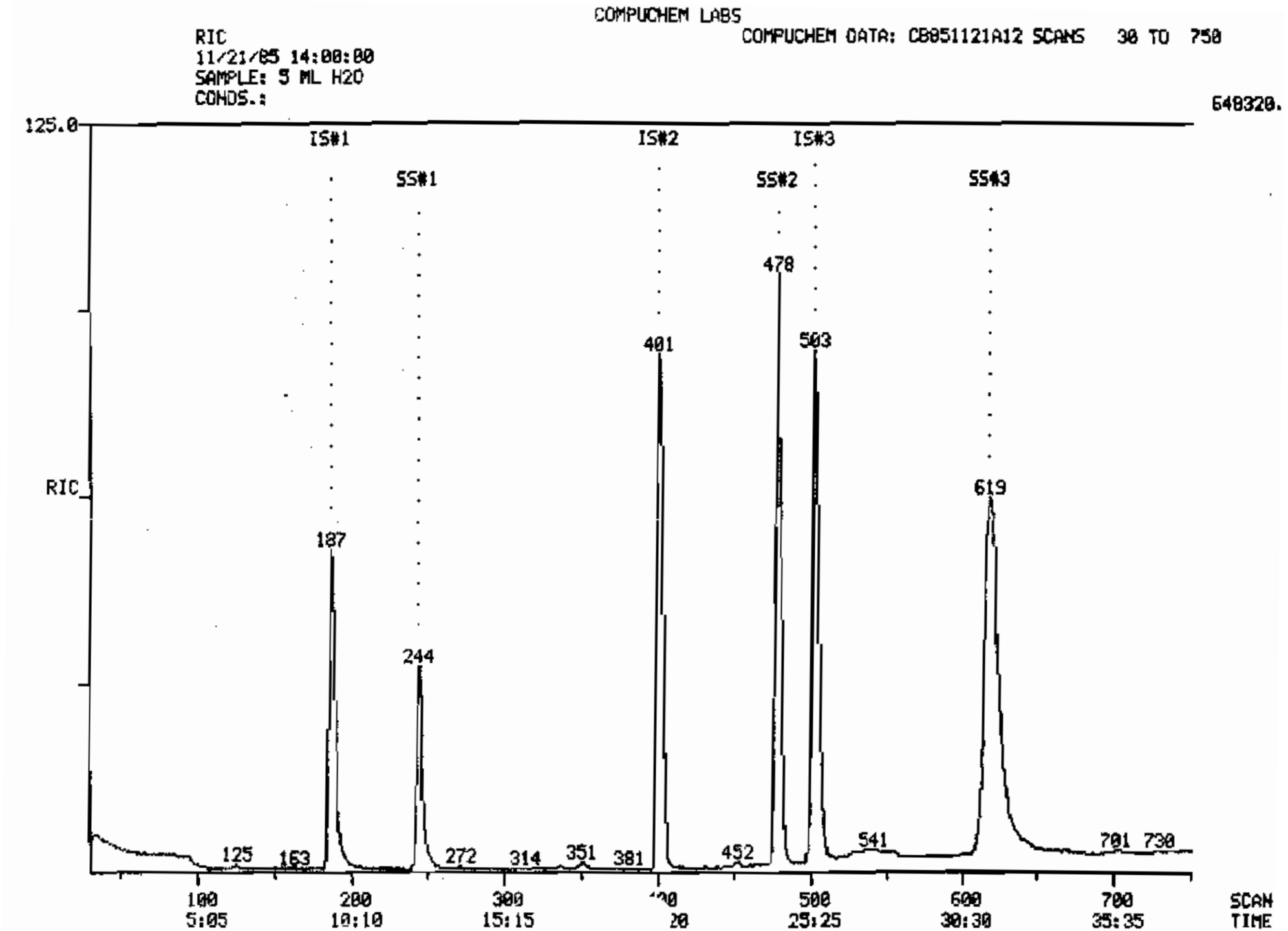
U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.


COMPUCHEM LABS
RIC
11/21/05 14:00:00
SAMPLE: 5 ML H2O
CONDS.:
COMPUCHEM DATA: CB051121A12 SCANS 30 TO 750
648320.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
478
401
503
187
244
619
RIC
125
163
272
314
351
381
452
541
701
730
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CB851121A12

DATA: CB851121A12.TI
11/21/85 14:00:00
AMPLE: 5 ML H2O
CONDS.:
SUBMITTED BY: 12 ANALYST: 577

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
9	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

#	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	187	9:30	1	1.000 A BB	189932.	50.000 UG/L 16.74
2	50	NOT FOUND					

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	NOT FOUND							
(7)	43	141	7:10	1	0.754	A BB	2517.	2.121 UG/L	0.71
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	401	20:23	14	1.000	A BB	782528.	50.000 UG/L	16.74
(15)	72	249	12:39	14	0.621	A BB	1786.	2.840 UG/L	0.95
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	503	25:34	29	1.000	A BB	688033.	50.000 UG/L	16.74
30	43	NOT FOUND							
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	245	12:27	1	1.310	A BB	258041.	48.588 UG/L	16.27
41	95	619	31:28	29	1.231	A BB	555725.	49.123 UG/L	16.45
42	98	478	24:18	1	2.556	A BB	787769.	46.042 UG/L	15.42

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:44		10.000			50.00		0.828	
3	2:39		10.000			50.00		1.565	
4	3:30		10.000			50.00		1.042	
5	4:22		10.000			50.00		0.628	
6	6:30		5.000			50.00		1.285	
7	7:19	0.98	10.000	0.08	2.12	50.00	0.013	0.312	0.04
8	8:20		5.000			50.00		4.332	
9	9:30		5.000			50.00		1.312	
10	10:37		5.000			50.00		2.367	
11	11:29		5.000			50.00		1.371	
13	11:51		5.000			50.00		2.480	
14	12:42		5.000			50.00		1.432	
14	20:35	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:49	0.99	10.000	0.06	2.84	50.00	0.002	0.040	0.06
16	14:02		5.000			50.00		0.370	
17	14:26		5.000			50.00		0.345	
18	14:44		10.000			50.00		0.569	
19	14:48		5.000			50.00		0.510	
20	16:25		5.000			50.00		0.437	
21	16:37		5.000			50.00		0.234	
22	17:17		5.000			50.00		0.403	
23	17:38		5.000			50.00		0.417	
24	17:51		5.000			50.00		0.380	
25	17:57		5.000			50.00		0.892	
26	17:57		5.000			50.00		0.628	
27	19:10		10.000			50.00		0.001	
28	20:26		5.000			50.00		0.278	
29	25:43	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.427	
31	22:56		10.000			50.00		0.271	
32	23:08		5.000			50.00		0.332	
33	22:49		5.000			50.00		0.778	
34	24:42		5.000			50.00		0.664	
35	25:52		5.000			50.00		0.909	
36	28:25		5.000			50.00		0.469	
37	33:57		5.000			50.00		1.059	
38	34:28		5.000			50.00		0.604	
39	35:50		5.000			100.00		0.591	
40	12:36	0.99	50.000	0.03	48.59	50.00	1.359	1.398	0.97
41	31:40	0.99	50.000	0.02	49.12	50.00	0.808	0.822	0.98
42	24:30	0.99	50.000	0.05	46.04	50.00	4.148	4.504	0.92

Internal Standard Area Monitor

Method: E237 Filename: CSB51121A12 Date: 11/21/85
ift Std: CS851121C12 Time: 14:00

Compound	Peak Area Sample	Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	189931.	188798.	13.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	782527.	741721.	6.	Pass
*270 D5-CHLOROBENZENE (IS)	688033.	679724.	1.	Pass

Volatile - Medium or Low Level Liquid

Ap #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	157	190000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE				BDL	5.
252	43		ACETONE (2-PROPANONE)			2.1	J	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	401	782000.	50.0		
253	72		2-BUTANONE			2.8	J	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLOROPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE				BDL	5.
8	129		CHLORODIBROMOMETHANE				BDL	5.
8	97		1,1,2-TRICHLOROETHANE				BDL	5.
203	78		BENZENE				BDL	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	D5-CHLOROBENZENE (IS)	503	688000.	50.0		
255	43		2-HEXANONE				BDL	10.
256	43		4-METHYL-2-PENTANONE				BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE				BDL	5.
207	112		CHLOROBENZENE				BDL	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P XYLENE				BDL	5.
258	65	s	D4-1,2-DICHLOROETHANE			48.6	97. %	
247	95	s	BROMOFLUOROBENZENE			49.1	98. %	
233	98	s	D8-TOLUENE			46.0	92. %	
Checksums:								
1995.	732			1091	1660000.	298.6		287.

#3 11-12-87

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLORDETHANE	49.6	50.0	97.	77-120	X	
41	247	BROMOFLUOROBENZENE	49.1	50.0	98.	85-121	X	
42	233	D8-TOLUENE	46.0	50.0	92.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ✓

Correction Factor Calculation:

$$\frac{5000 \text{ ul}}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000 \text{ ul}}{5000. \text{ (ul)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

11-22-91

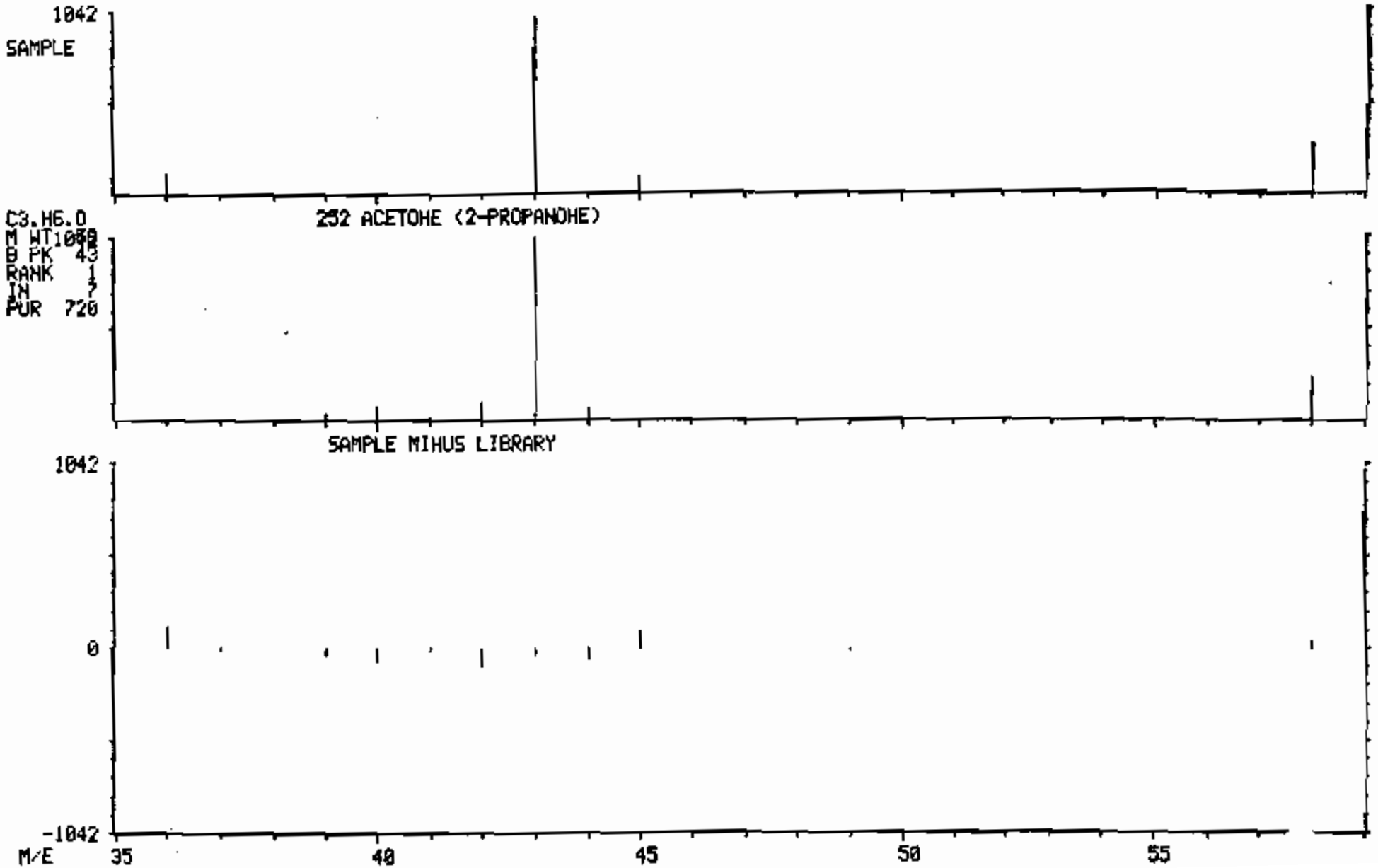
67-64.1

COMPUCHEM LABS

LIBRARY SEARCH
11/21/85 14:00:00 + 7:10
SAMPLE: 5 ML H2O
ENHANCED (S 150 2N 0T)

DATA: CB851121A12 # 141

BASE M/E: 43
RIC: 795.

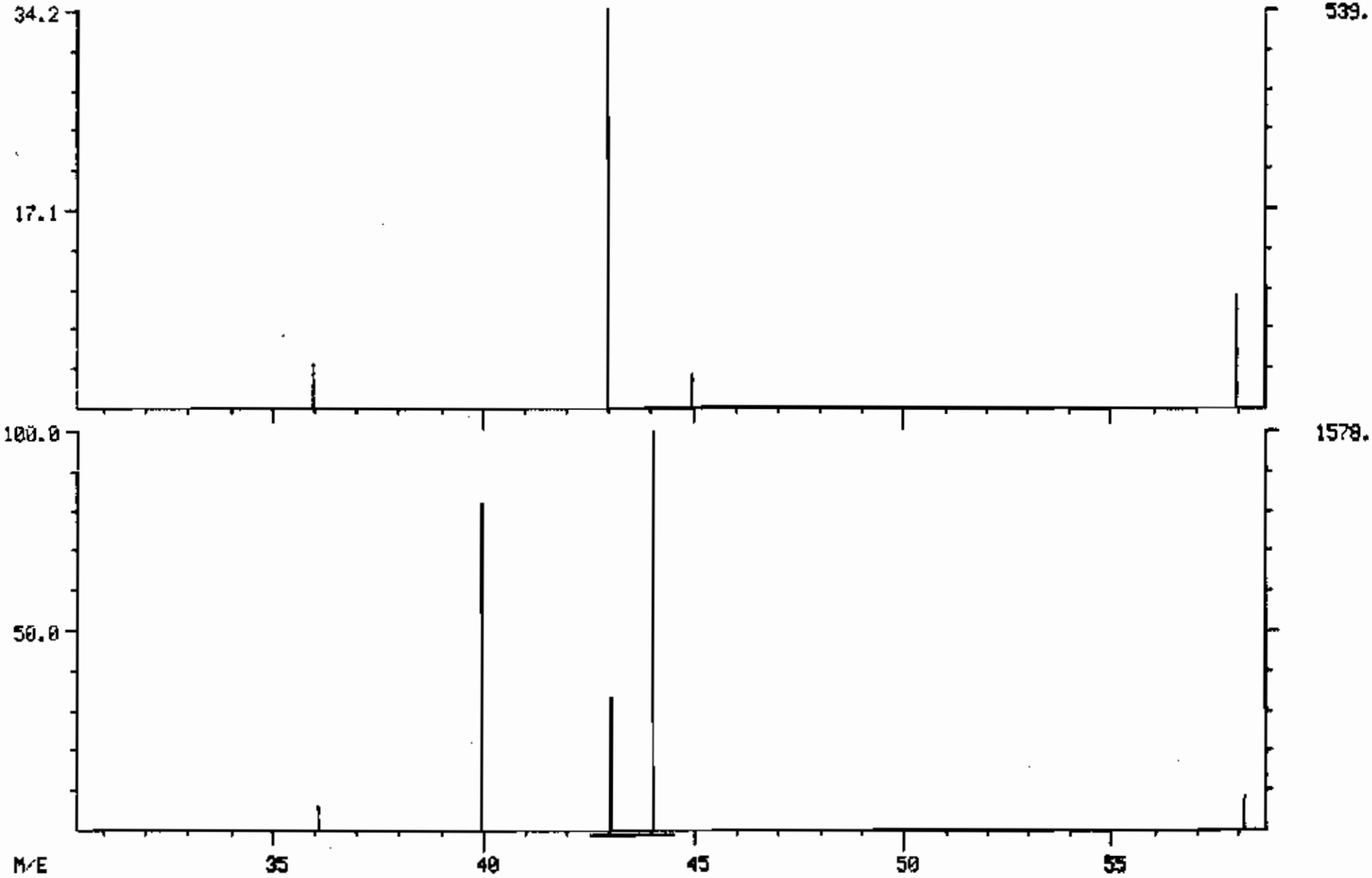


2552

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/21/85 14:00:00 + 7:10
SAMPLE: 5 ML H2O
ENHANCED (S 150 2N)

DATA: CB851121A12 #141 BASE M/E: 43/ 44
RIC: 795./ 3623.

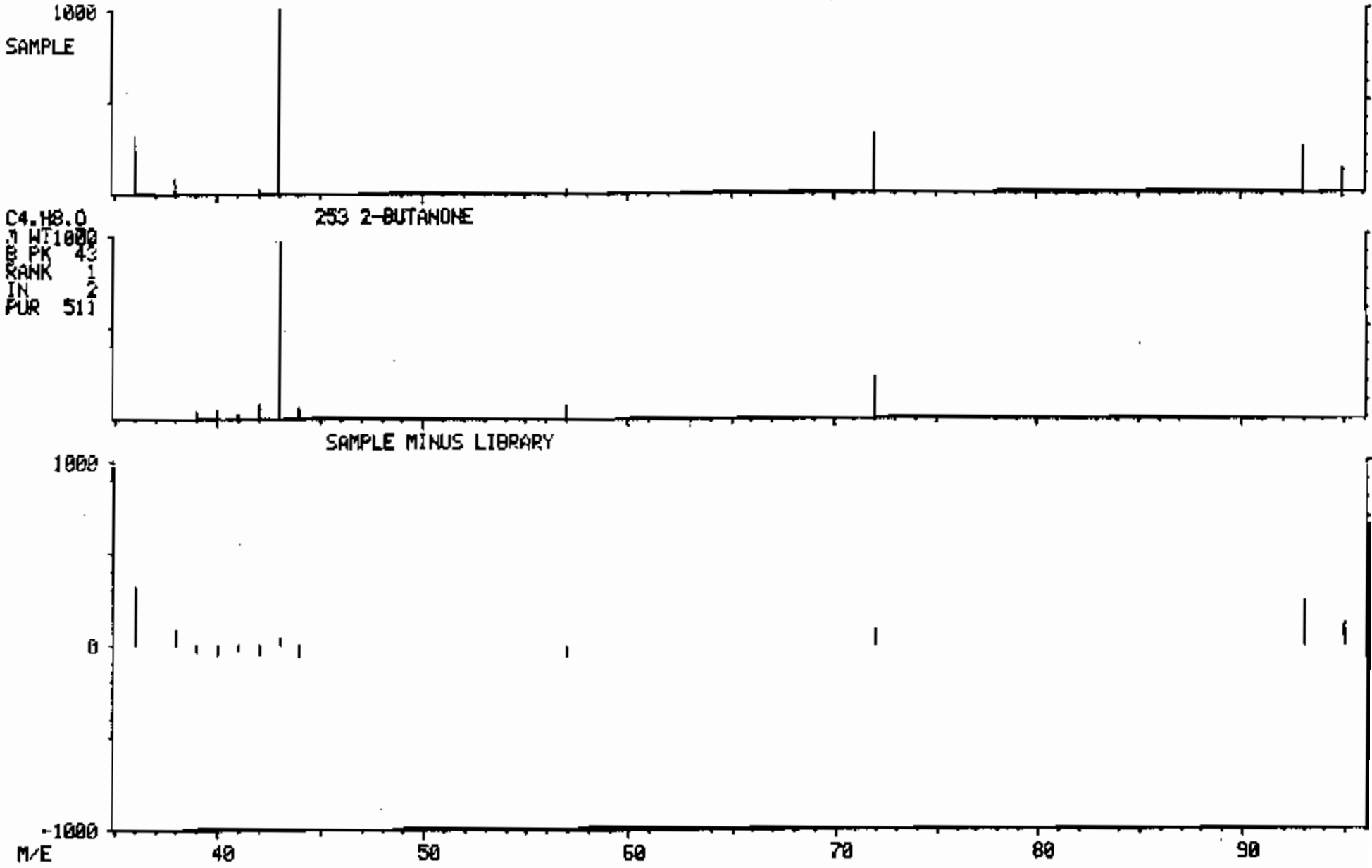


COMPUCHEM LABS

LIBRARY SEARCH
11/21/85 14:00:00 + 12:39
SAMPLE: 5 ML H2O
ENHANCED (S 15B 2N 0T)

DATA: CB851121A12 # 249

BASE M/E: 43
RIC: 2987.

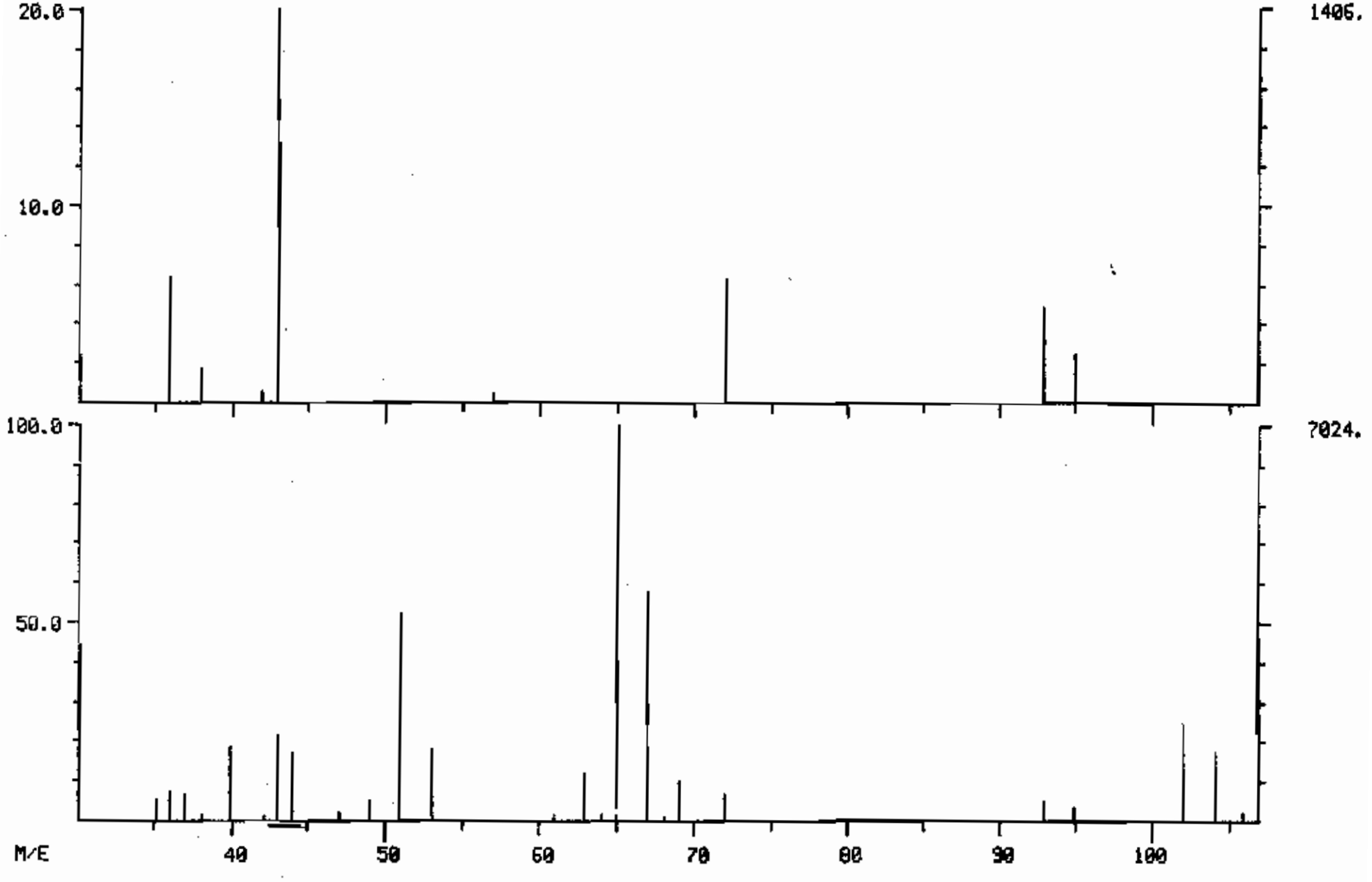


253

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/21/85 14:00:00 + 12:39
SAMPLE: 5 ML H2O
ENHANCED (5 15B 2N)

DATA: CB851121A12 #249 BASE M/E: 43/ 65
RIC: 2987./ 28159.



Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703 557-2490

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
Page 1

Laboratory Name: CompuChem
Lab Sample ID No: 2SB1122415
Sample matrix: liquid
Data Release Authorized By: ________________

Case: URS
QC Report No: ______________
Contract No:
Date Sample Received:

Volatile Compounds

Concentration: low
Date extracted prepared:
Date analyzed: 11-22-95
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

[redacted]

Sample Number:
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
4.				
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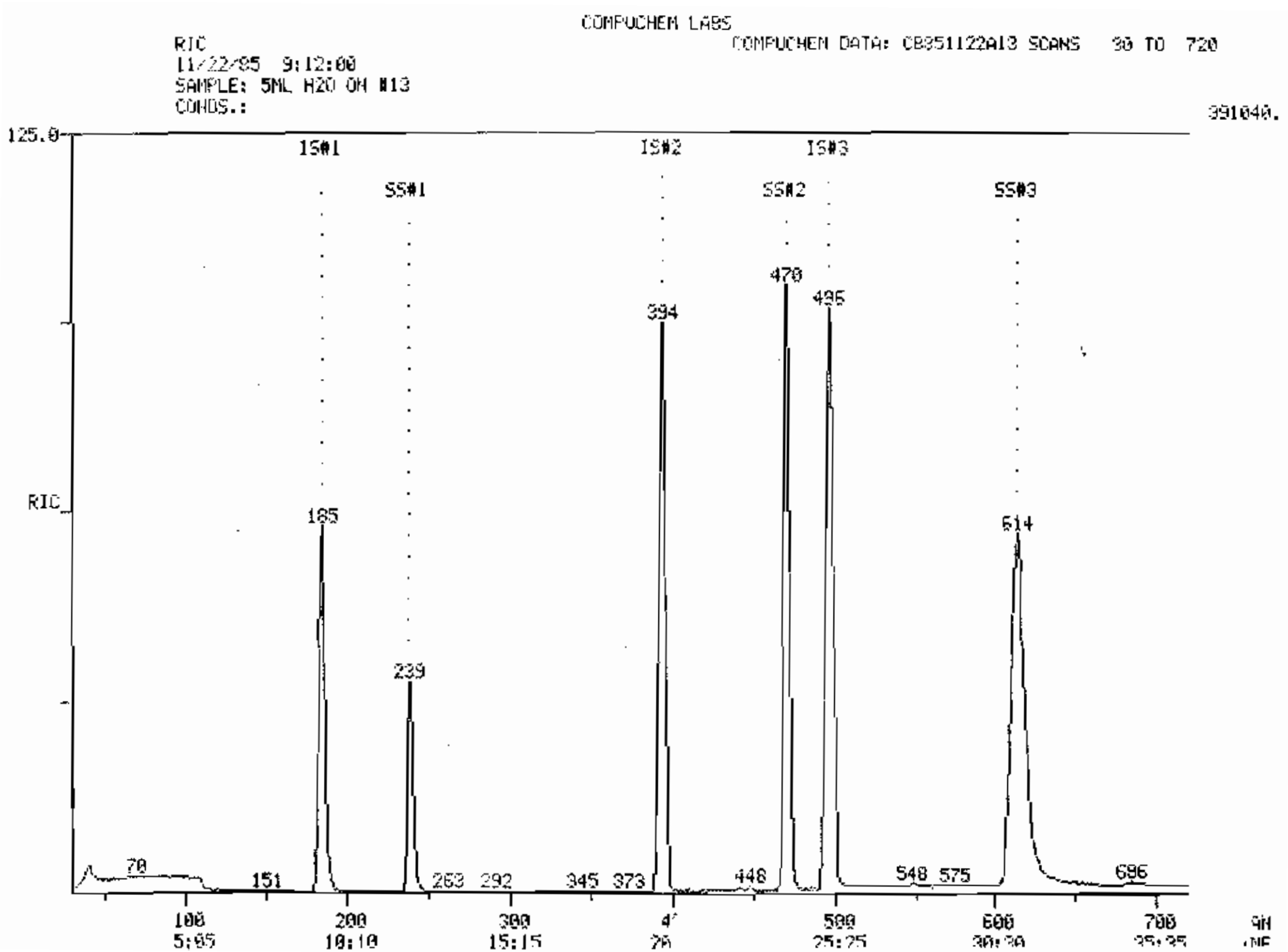
30.				


COMPUCHEM LABS
RIC
11/22/85 9:12:00
SAMPLE: 5ML H20 ON #13
CONDS.:
COMPUCHEM DATA: CB851122A13 SCANS 30 TO 720
391040.
125.0
RIC
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
185
239
394
470
495
514
70
151
263
292
345
373
448
548
575
696
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35

QUANTITATION REPORT

DATA: CB851122A13.TI
11/22/85 9:12:00
SAMPLE: 5ML H2O ON #13
`NDS. :
,BMITTED BY: 13 ANALYST: B91

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1, 1-DICHLOROETHYLENE
10	214 1, 1-DICHLOROETHANE
11	226 TRANS-1, 2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1, 2-DICHLOROETHANE
14	*248 1, 4 DIFLUOROBENZENE (IE)
15	253 2-BUTANONE
16	227 1, 1, 1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1, 2-DICHLOROPROPANE
21	250 TRANS-1, 3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1, 1, 2-TRICHLOROETHANE
25	203 BENZENE
26	218 CZS-1, 3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1, 1, 2, 2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O, P-XYLENE
40	#258 D4-1, 2-DICHLOROETHANE
41	#247 BROMOFLUOROBENZENE
42	#233 D8-TOLUENE

ND	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BB	125334.	50.000 UG/L	16.86
	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	NOT FOUND							
7	43	133	6:46	1	0.723	A BB	1082.	2.153 UG/L	0.73
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	394	20:02	14	1.000	A BV	526570.	50.000 UG/L	16.86
15	72	NOT FOUND							
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	496	25:13	29	1.000	A BB	491588.	50.000 UG/L	15.86
30	43	NOT FOUND							
31	43	441	22:25	29	0.889	A*BB	8435.	4.198 UG/L	1.42
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	239	12:09	1	1.299	A BV	141890.	44.629 UG/L	15.05
41	95	614	31:13	29	1.238	A BB	382995.	49.210 UG/L	16.60
42	98	470	23:53	1	2.554	A BV	490307.	46.351 UG/L	15.63

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:27	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38		10.000			50.00		0.354	
3	2:36		10.000			50.00		1.678	
4	3:18		10.000			50.00		1.112	
5	4:13		10.000			50.00		0.741	
6	6:18		5.000			50.00		1.050	
7	6:52	0.99	10.000	0.07	2.15	50.00	0.009	0.200	0.04
8	7:44		5.000			50.00		3.055	
9	8:57		5.000			50.00		1.141	
10	10:16		5.000			50.00		1.911	
11	10:59		5.000			50.00		1.231	
12	11:35		5.000			50.00		2.328	
13	12:21		5.000			50.00		1.348	
	19:59	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:12		10.000			50.00		0.022	
16	13:37		5.000			50.00		0.382	
17	14:02		5.000			50.00		0.382	
18	14:11		10.000			50.00		0.425	
7	14:35		5.000			50.00		0.496	
8	15:58		5.000			50.00		0.337	
21	16:16		5.000			50.00		0.198	
22	16:50		5.000			50.00		0.441	
23	17:29		5.000			50.00		0.492	
24	17:35		5.000			50.00		0.348	
25	17:17		5.000			50.00		0.795	
26	17:35		5.000			50.00		0.592	
27	18:42		10.000			50.00		0.219	
28	20:20		5.000			50.00		0.327	
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47		10.000			50.00		0.312	
31	22:25	1.00	10.000	0.09	4.20	50.00	0.017	0.204	0.08
32	22:43		5.000			50.00		0.432	
33	22:43		5.000			50.00		0.546	
34	24:03		5.000			50.00		0.615	
35	25:19		5.000			50.00		0.960	
36	27:45		5.000			50.00		0.440	
37	33:06		5.000			50.00		0.987	
38	33:27		5.000			50.00		0.569	
39	34:49		5.000			100.00		0.571	
40	12:15	0.99	10.000	0.13	44.63	50.00	1.132	1.268	0.39
41	31:10	1.00	10.000	0.12	49.21	50.00	0.779	0.792	0.93
42	23:50	1.00	10.000	0.26	46.35	50.00	3.912	4.220	0.93

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
)	128	I	BROMOCHLOROMETHANE (IS)	184	125000.	50.0		
..1	50		CHLOROMETHANE				BDL	10.
230	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10
209	64		CHLOROETHANE				BDL	10
222	84		METHYLENE CHLORIDE				BDL	5
252	43		ACETONE (2-PROPANONE)			2.2	BDL	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	I	1,4 DIFLUOROBENZENE (IS)	394	526000.	50.0		
253	72		2-BUTANONE				BDL	10
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLOROPROPANE				BDL	5
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE				BDL	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
228	97		1,1,2-TRICHLOROETHANE				BDL	5
203	78		BENZENE				BDL	5.
21P	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
:	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
20	173		BROMOFORM				BDL	5.
70	117	I	D5-CHLOROBENZENE (IS)	496	492000.	50.0		
55	43		2-HEXANONE				BDL	10.
56	43		4-METHYL-2-PENTANONE			4.2	BDL	10.
24	164		TETRACHLOROETHENE				BDL	5
23	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
25	92		TOLUENE				BDL	5.
07	112		CHLOROBENZENE				BDL	5
19	106		ETHYLBENZENE				BDL	5.
51	104		STYRENE				BDL	5
40	106		M-XYLENE				BDL	5
71	106		O,P-XYLENE				BDL	5.
5B	65	S	D4-1,2-DICHLOROETHANE			44.6	89. %	
17	95	S	BROMOFLUOROBENZENE			49.2	98. %	
33	98	S	D8-TOLUENE			46.4	93. %	
HECKSUMS:								
.998.	703			1074	1143000.	296.6	280.	

9/11-25-85

Volatile - Medium or Low Level Liquid

	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	44.6	50.0	89.	77-120	X	
41	247	BROMOFLUOROBENZENE	49.2	50.0	98.	85-121	X	
42	233	DB-TOLUENE	46.4	50.0	93.	86-119	X	

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ✓

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

ANT Report Amount Spiked Conversion Factor:

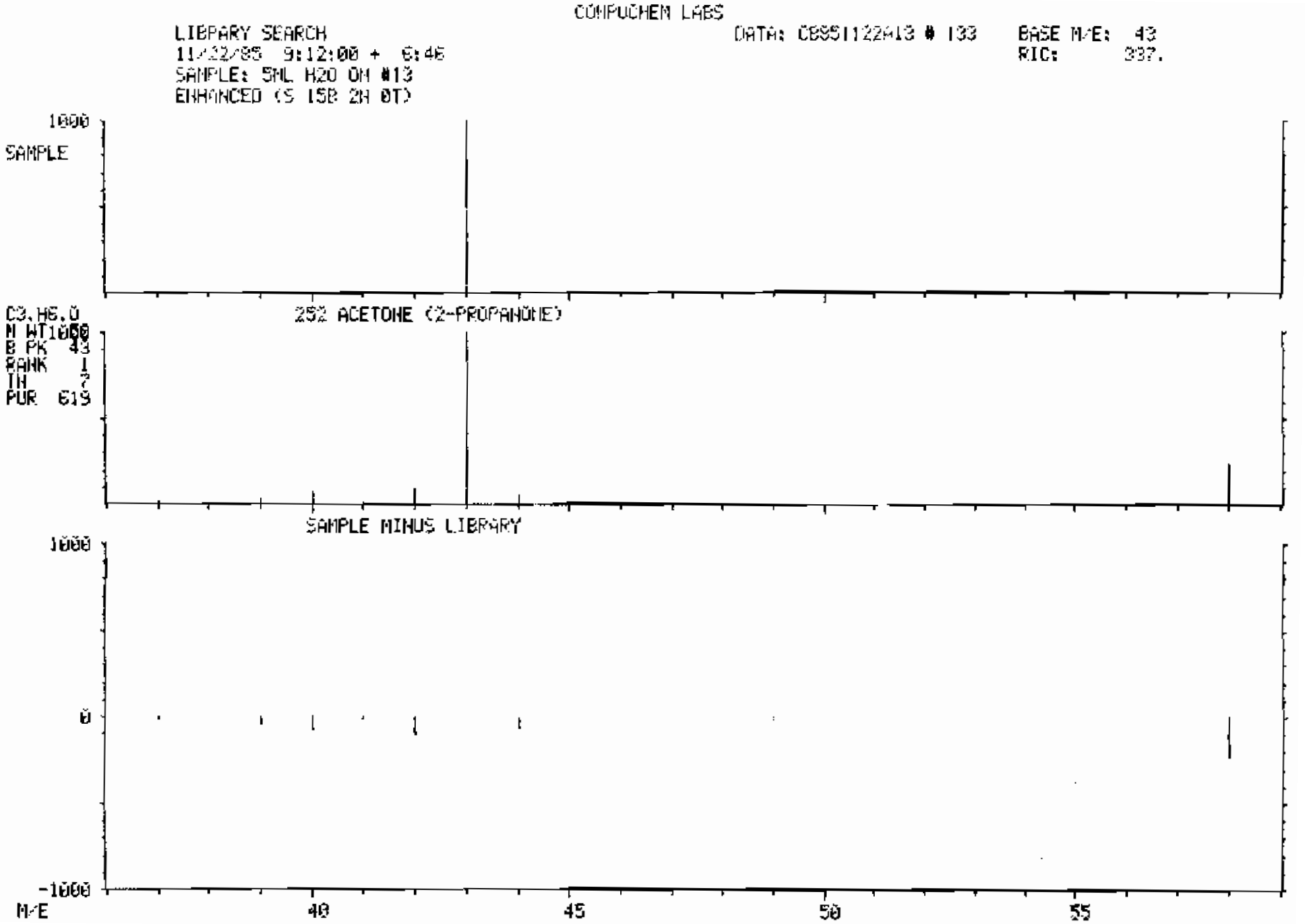
The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

8/3 11-25-87

METHOD: E237 FILENAME: CB851122A13 DATE: 11/22/85
SHIFT STD: CS851122A13 TIME: 9:12

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS)	125330.	120913.	4.	PASS
*248 1,4 DIFLUOROBENZIENE (IS)	526569.	533929.	-0.	PASS
*270 D5-CHLOROBENZENE (IS)	491587.	501336.	-1.	PASS

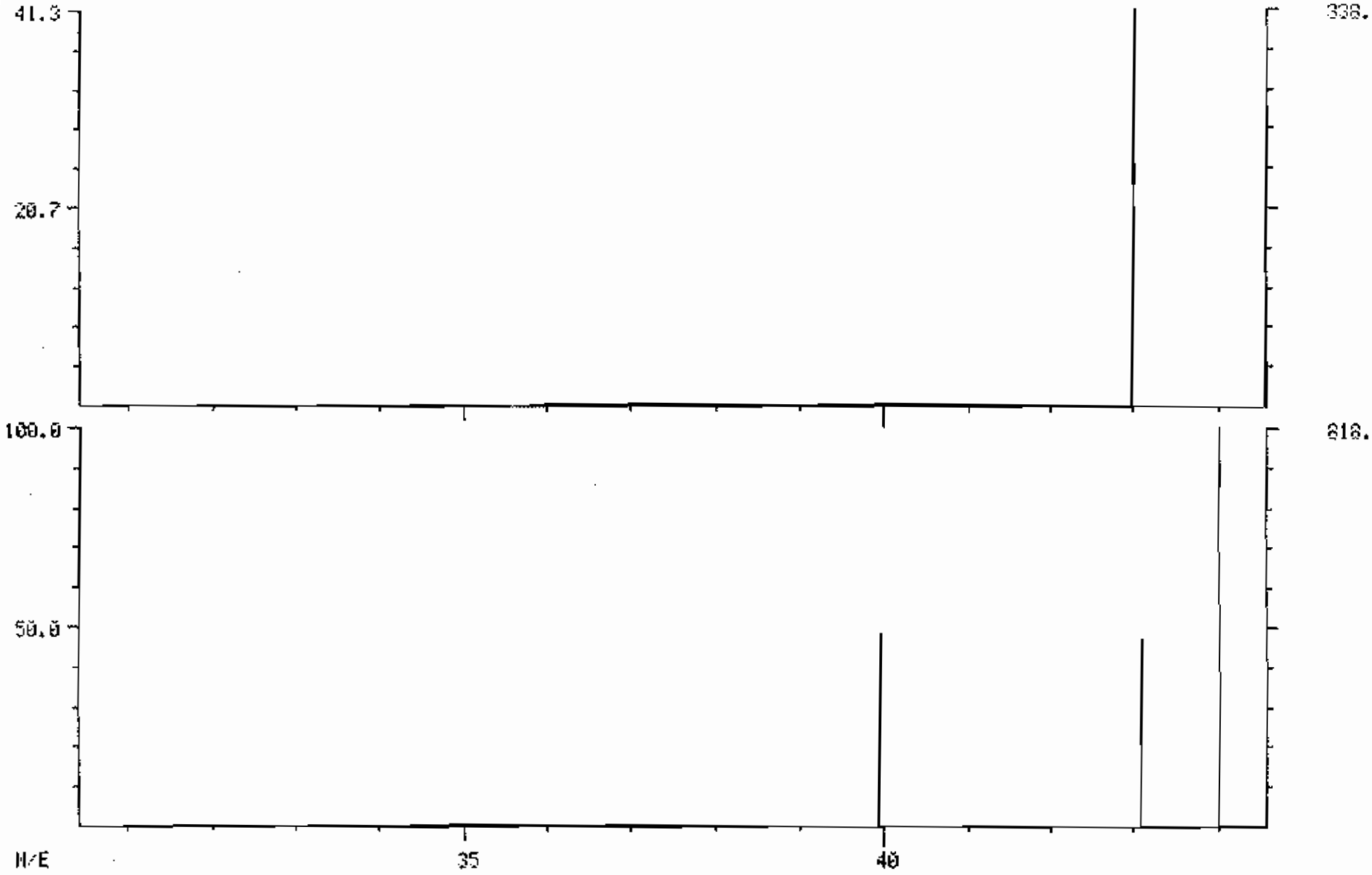
✓

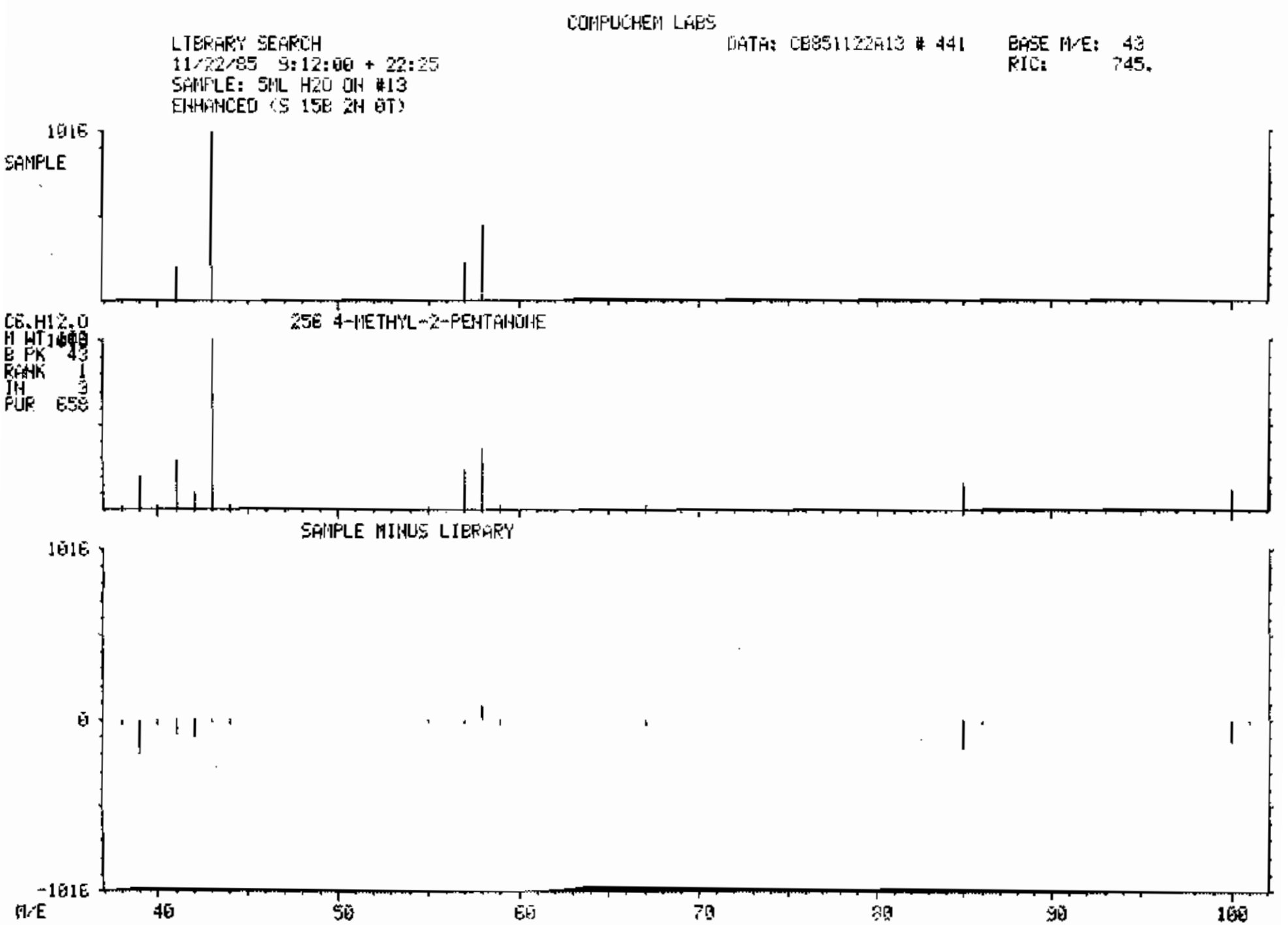

COMPUCHEM LABS
LIBRARY SEARCH
11/22/85 9:12:00 + 0:46
SAMPLE: SML H2O DM #13
ENHANCED (S 15B 2H 0T)
DATA: CB851122#13 # 133
BASE M/E: 43
RIC: 337.
1000
SAMPLE
C3,H6,O
M WT 1000
B PK 43
RANK 1
IH 7
PUR 619
252 ACETONE (2-PROPANONE)
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
40
45
50
55

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/22/85 9:12:00 + 6:46
SAMPLE: 5ML H2O ON #13
ENHANCED (S 150 2N)

DATA: CB851122A13 #133 BASE M/E: 43/ 44
RIC: 337./ 1599.

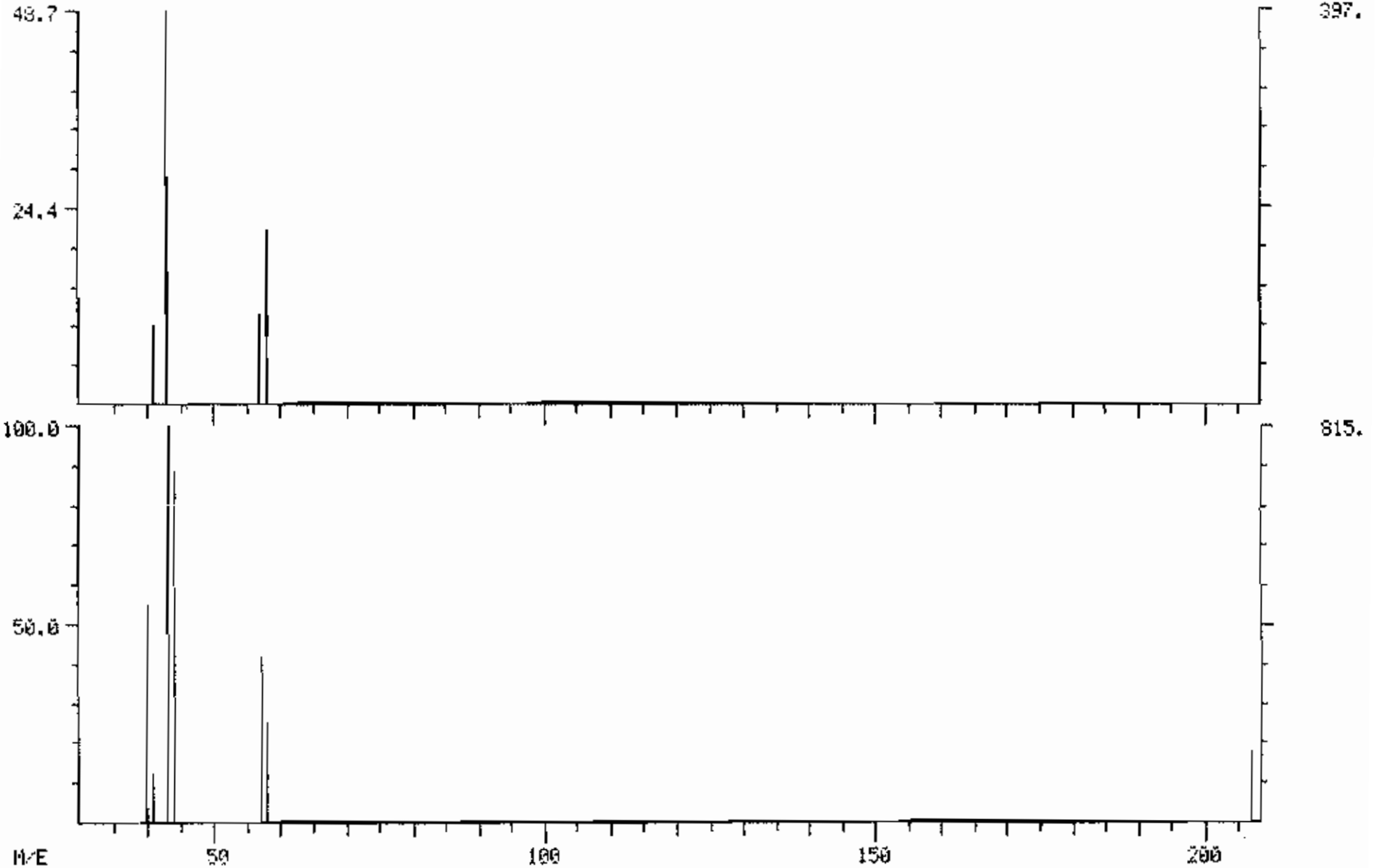



COMPUCHEM LABS
LIBRARY SEARCH
11/22/85 9:12:00 + 22:25
SAMPLE: 5ML H2O ON #13
ENHANCED (S 15B 2H 0T)
DATA: CB851122A13 # 441
BASE M/E: 43
RIC: 745.
1016
SAMPLE
256 4-METHYL-2-PENTANONE
SAMPLE MINUS LIBRARY
1016
0
-1016
M/E
40
50
60
70
80
90
100

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/22/85 9:12:00 + 22:25
SAMPLE: 5ML H2O ON #13
ENHANCED (S 15B 2H)

DATA: CB851122A13 #441 BASE M/E: 43/ 43
RIC: 745./ 2775.



Volatile Analysis Data Sheet
Page 1

Laboratory Name: Consulmet
Lab Sample ID No: 8511112112
Sample matrix: Liquid
Date released
Authorized by: _____

Case: ULS
SO Report No: _____
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: Low
Date extracted/prepared:
Date analyzed: 11-23-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	3.7	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	5.0	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	111-44-4	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number:
INST. BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.				
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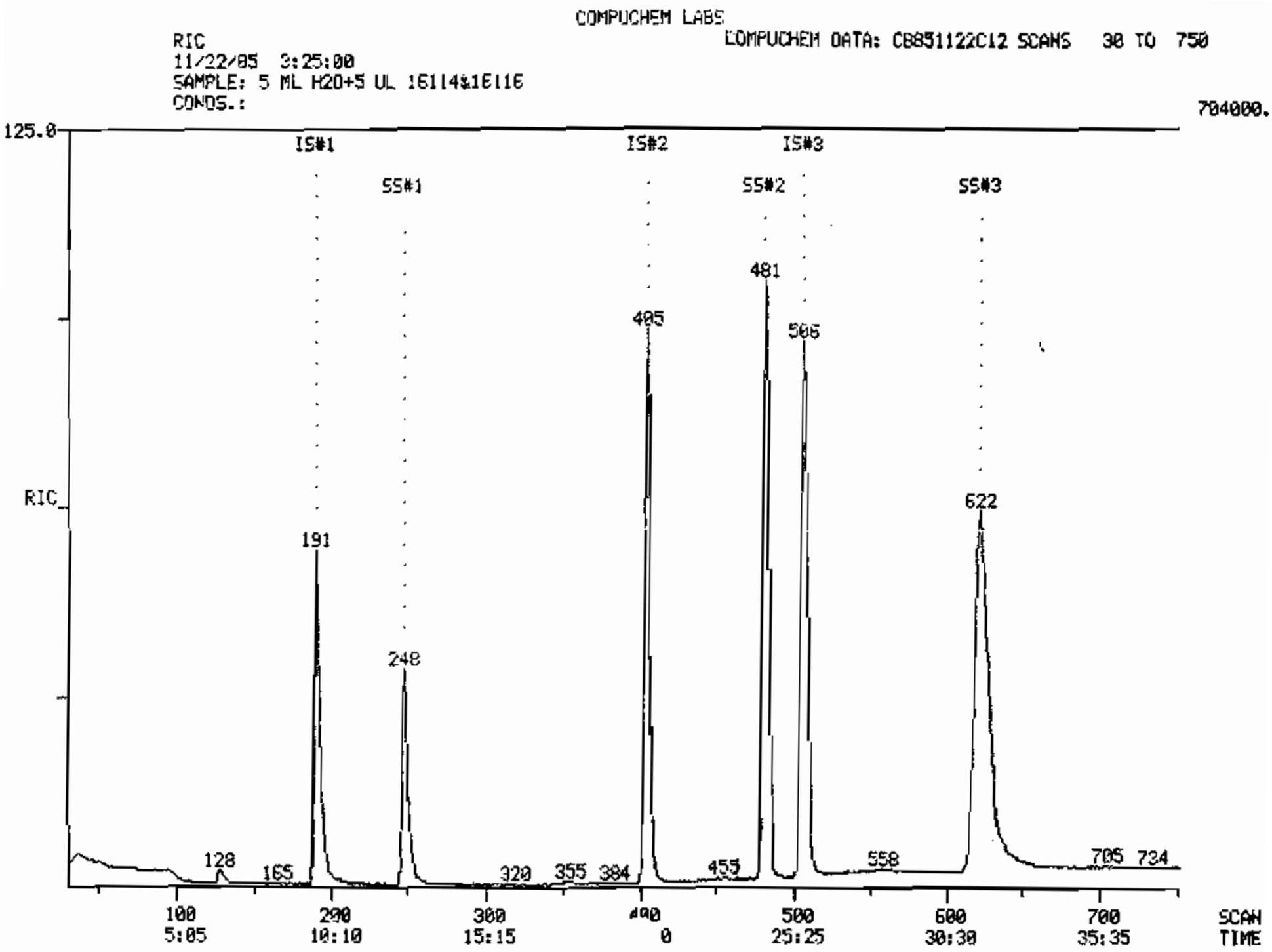

COMPUCHEM LABS
RIC
11/22/05 3:25:00
SAMPLE: 5 ML H20+5 UL 16114&16116
CONDS.:
COMPUCHEM DATA: CB851122C12 SCANS 30 TO 750
704000.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
481
405
506
RIC
191
622
248
128
165
320
355
384
455
558
705
734
100
5:05
200
10:10
300
15:15
400
0
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CB851122C12

DATA: CB851122C12.TI
1/22/85 3:25:00
AMPLE: 5 ML H20+5 UL 16114&16116
CONDS.:
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

TYPE	SCAN	TIME	REF	MKT	METH	AREA(HEIGHT)	AMOUNT	%TOT
1	128	191	9:43	1	1.000	A BB	211971.	50.000 UG/L	16.45
2	50	NOT FOUND						

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	128	6:30	1	0.670	A BB	15147.	2.700 UG/L	0.89
7	43	144	7:19	1	0.754	A BB	1834.	1.592 UG/L	0.52
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	405	20:35	14	1.000	A BB	878453.	50.000 UG/L	16.45
15	72	252	12:49	14	0.622	A BB	1260.	2.080 UG/L	0.68
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	506	25:43	29	1.000	A BB	770730.	50.000 UG/L	16.45
[illegible]	43	NOT FOUND							
[illegible]	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	248	12:36	1	1.298	A BB	286093.	48.911 UG/L	16.09
41	95	622	31:37	29	1.229	A BB	621826.	50.362 UG/L	16.56
42	98	481	24:27	1	2.518	A BV	880503.	48.389 UG/L	15.92

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:33	1.02	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:38		10.000			50.00		1.574	
3	2:26		10.000			50.00		1.785	
4	3:12		10.000			50.00		1.435	
5	4:04		10.000			50.00		0.736	
6	6:12	1.05	5.000	0.13	2.70	50.00	0.071	1.323	0.05
7	7:04	1.04	10.008	0.08	1.59	50.00	0.009	0.272	0.03
8	8:08		5.000			50.00		3.936	
9	9:18		5.000			50.00		1.403	
10	10:31		5.000			50.00		2.339	
11	11:23		5.000			50.00		1.444	
[illegible]	11:45		5.000			50.00		2.559	
[illegible]	12:36		5.000			50.00		1.458	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:42	1.01	10.000	0.06	2.08	50.00	0.001	0.034	0.04
16	13:56		5.000			50.00		0.391	
17	14:20		5.000			50.00		0.367	
18	14:38		10.000			50.00		0.509	
19	14:44		5.000			50.00		0.527	
20	16:19		5.000			50.00		0.425	
21	16:34		5.000			50.00		0.237	
22	17:11		5.000			50.00		0.424	
23	17:35		5.000			50.00		0.412	
24	17:47		5.000			50.00		0.367	
25	17:54		5.000			50.00		0.907	
26	17:54		5.000			50.00		0.621	
27	19:07		10.000			50.00		0.052	
28	20:23		5.000			50.00		0.267	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15		10.000			50.00		0.353	
31	22:52		10.000			50.00		0.233	
32	23:05		5.000			50.00		0.351	
33	22:46		5.000			50.00		0.690	
34	24:39		5.000			50.00		0.677	
35	25:49		5.000			50.00		0.913	
36	28:22		5.000			50.00		0.473	
37	33:51		5.000			50.00		1.018	
38	34:22		5.000			50.00		0.589	
39	35:41		5.000			100.00		0.569	
40	12:30	1.01	50.000	0.03	48.91	50.00	1.350	1.380	0.98
41	31:34	1.00	50.000	0.02	50.36	50.00	0.807	0.801	1.01
42	24:27	1.00	50.000	0.05	48.39	50.00	4.154	4.292	0.97

Internal Standard Area Monitor

Method: E237 Filename: CB851122C12 Date: 11/22/85
ift Std: CS851122C12 Time: 3:25

Compound	Peak Area Sample	Shift Std	XDiff	P/F
*234 BROMOCHLOROMETHANE (IS)	211970.	209412.	1.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	878452.	903343.	-2.	Pass
*270 D5-CHLOROBENZENE (IS)	770730.	824476.	-6.	Pass

Volatile - Medium or Low Level Liquid

Mp #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)	Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	191	212000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE			2.7	J	5.
252	43		ACETONE (2-PROPANONE)			1.6	J	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	405	878000.	50.0		
253	72		2-BUTANONE			~~2.1~~	~~J BX~~	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLOROPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE				BDL	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
218	97		1,1,2-TRICHLOROETHANE				BDL	5.
203	78		BENZENE				BDL	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	i	D5-CHLOROBENZENE (IS)	506	771000.	50.0		
255	43		2-HEXANONE				BDL	10.
256	43		4-METHYL-2-PENTANONE				BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE				BDL	5.
207	112		CHLOROBENZENE				BDL	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P XYLENE				BDL	5.
258	65	s	D4-1,2-DICHLOROETHANE			48.9	98. %	
247	95	s	BROMOFLUOROBENZENE			50.4	101. %	
233	98	s	D8-TOLUENE			48.4	97. %	
Checksums:								
2217.	816			1102	1861000.	304.1		296.

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	48.9	50.0	98.	77-120	X	
41	247	BROMOFLUOROBENZENE	50.4	50.0	101.	85-121	X	
42	233	D8-TOLUENE	48.4	50.0	97.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Guant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5000\ ul}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000\ ul}{5000.\ (ul)} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

4/8 11-25-85

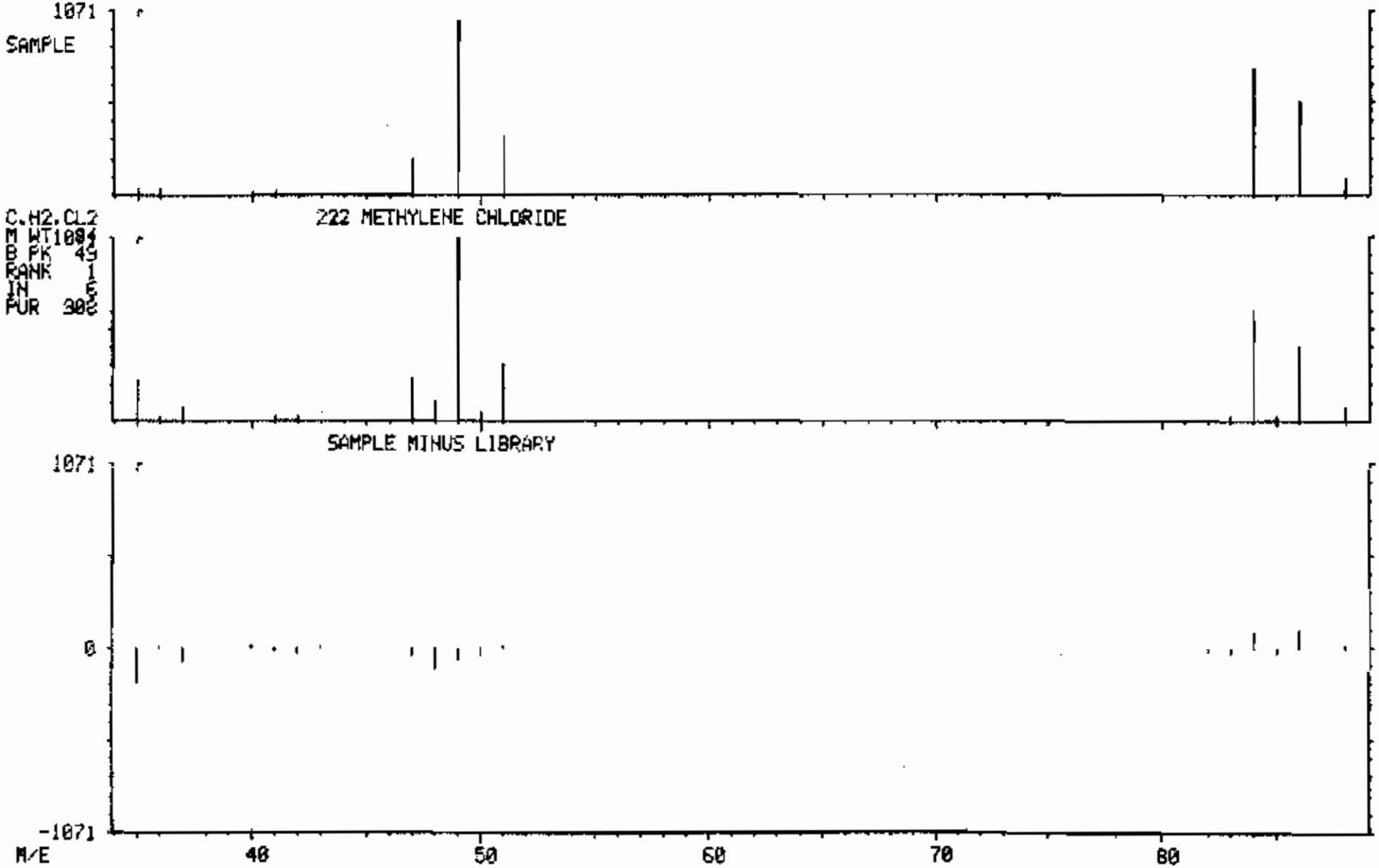
version 4

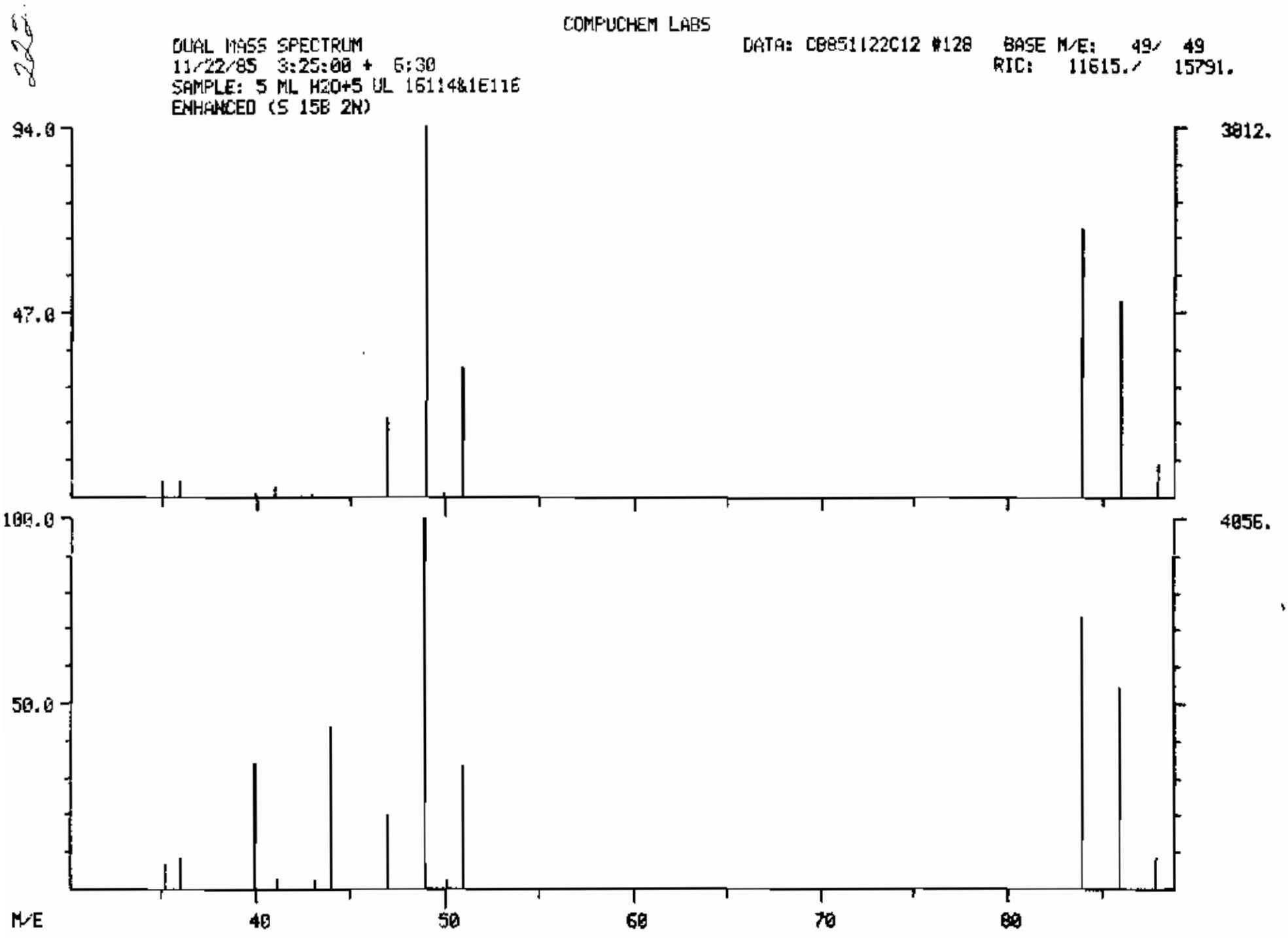
COMPUCHEM LABS

LIBRARY SEARCH
11/22/85 3:25:00 + 6:30
SAMPLE: 5 ML H2O+5 UL 16114&16116
ENHANCED (S 15B 2N 0T)

DATA: CB951122C12 # 120

BASE M/E: 49
RIC: 11615.




COMPUCHEM LABS
DUAL MASS SPECTRUM
11/22/85 3:25:00 + 6:30
SAMPLE: 5 ML H2O+5 UL 16114&1E116
ENHANCED (S 15B 2N)
DATA: CB851122C12 #128
BASE M/E: 49/ 49
RIC: 11615./ 15791.
94.0
47.0
3812.
100.0
50.0
4056.
M/E
40
50
60
70
80

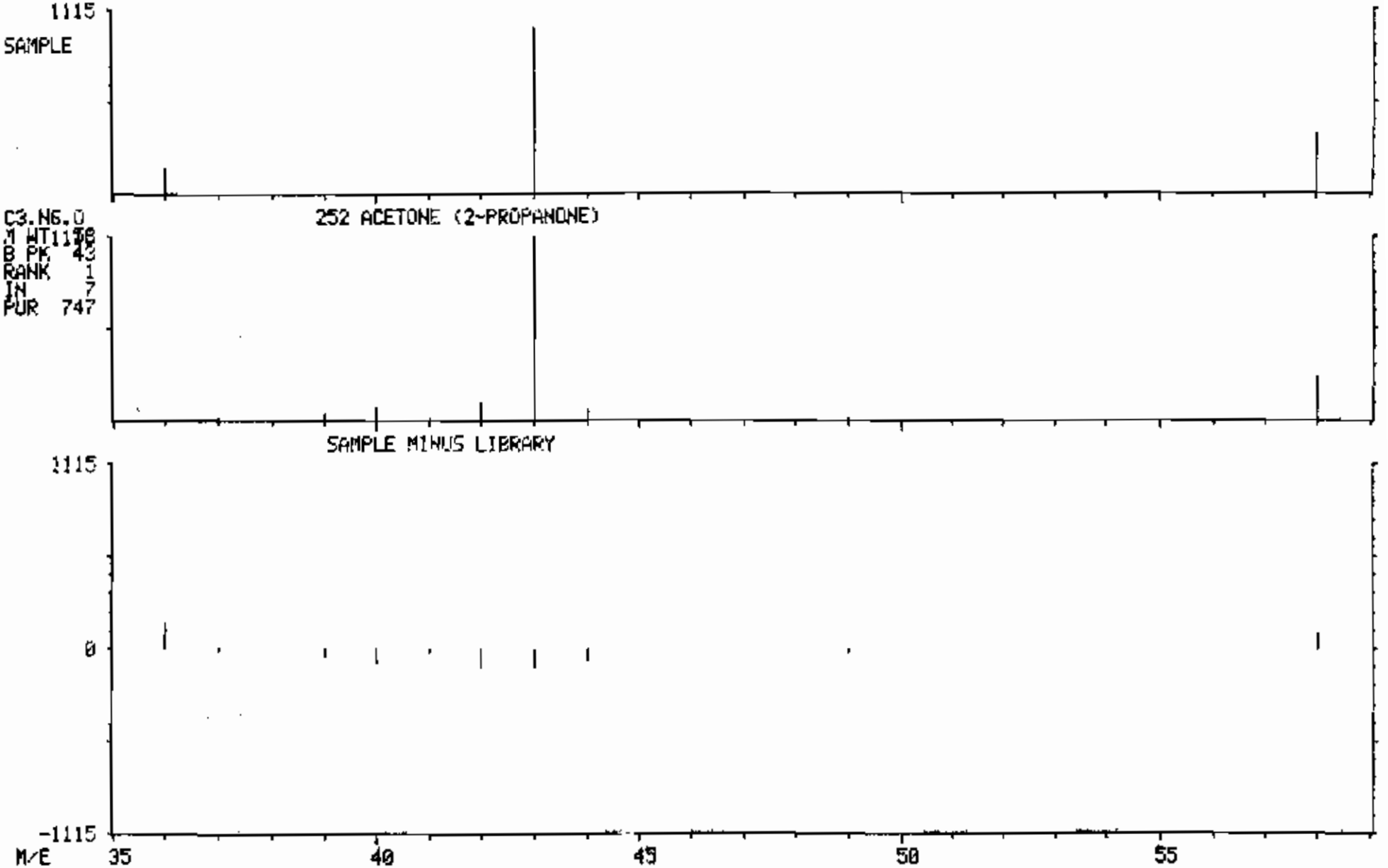
67.64.1

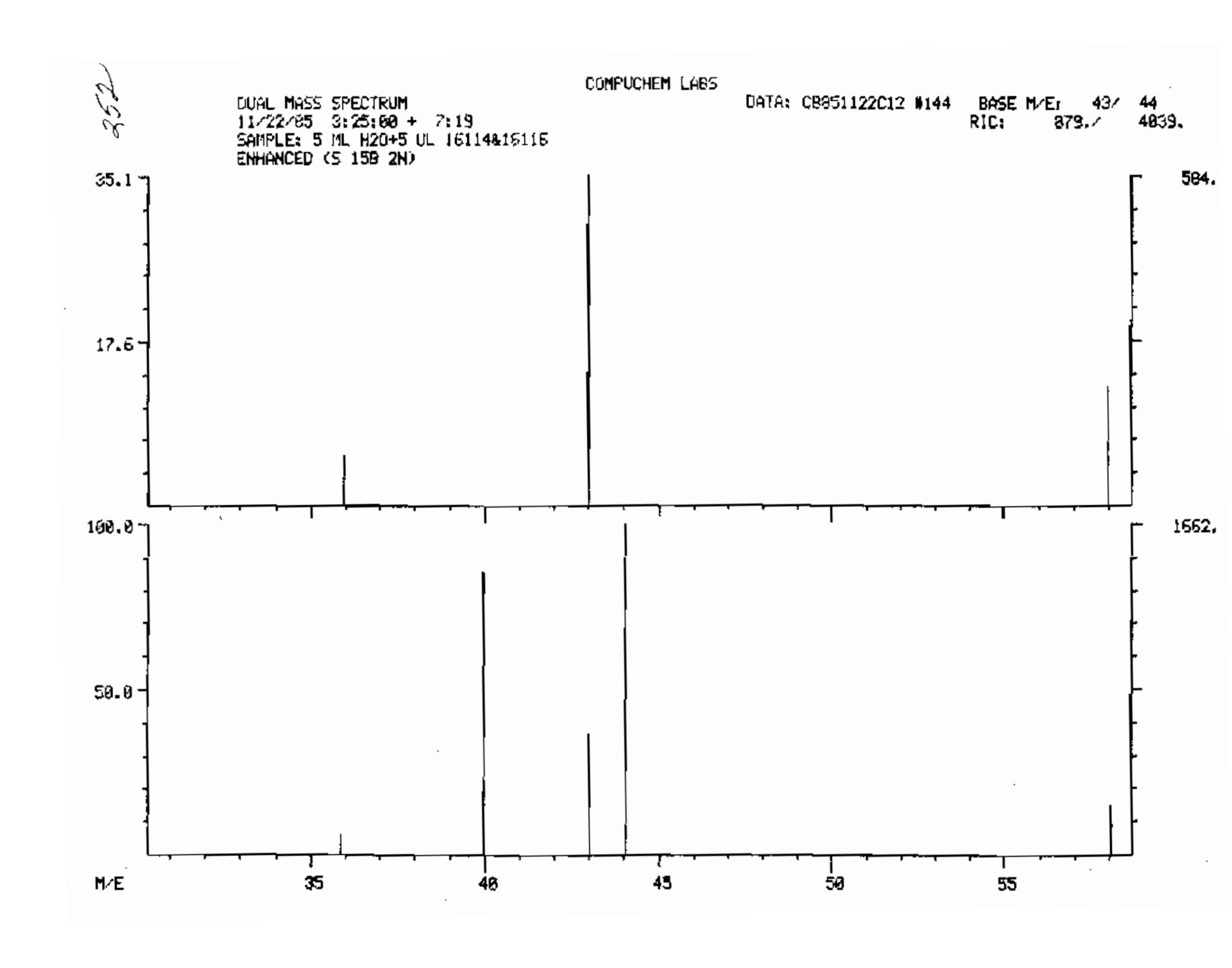
COMPUCHEM LABS

LIBRARY SEARCH
11/22/85 3:25:00 + 7:19
SAMPLE: 5 ML H20+5 UL 16114&16116
ENHANCED (S 15B 2N 0T)

DATA: CB851122C12 # 144

BASE M/E: 43
RIC: 879.




COMPUCHEM LABS
DUAL MASS SPECTRUM
11/22/85 3:25:00 + 7:19
SAMPLE: 5 ML H2O+5 UL 16114&16116
ENHANCED (S 15B 2N)
DATA: CB851122C12 #144
BASE M/E: 43/ 44
RIC: 879./ 4039.
35.1
17.6
584.
100.0
50.0
1662.
M/E
35
40
45
50
55

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
CN068392A13

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Compuchem
Lab Sample ID No: CN068392A13
Sample matrix: liquid
Data Release
Authorized By: _____

Case: 685
QC Report No: _____
Contract No:
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 11-22-85
Date analyzed: 11-22-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	2.5	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

...Protection Agency, CLP Sample Management Office,
P O Box 818, Alexandria Virginia 22313 703/557-2490

Sample Number
CA06892 A13

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
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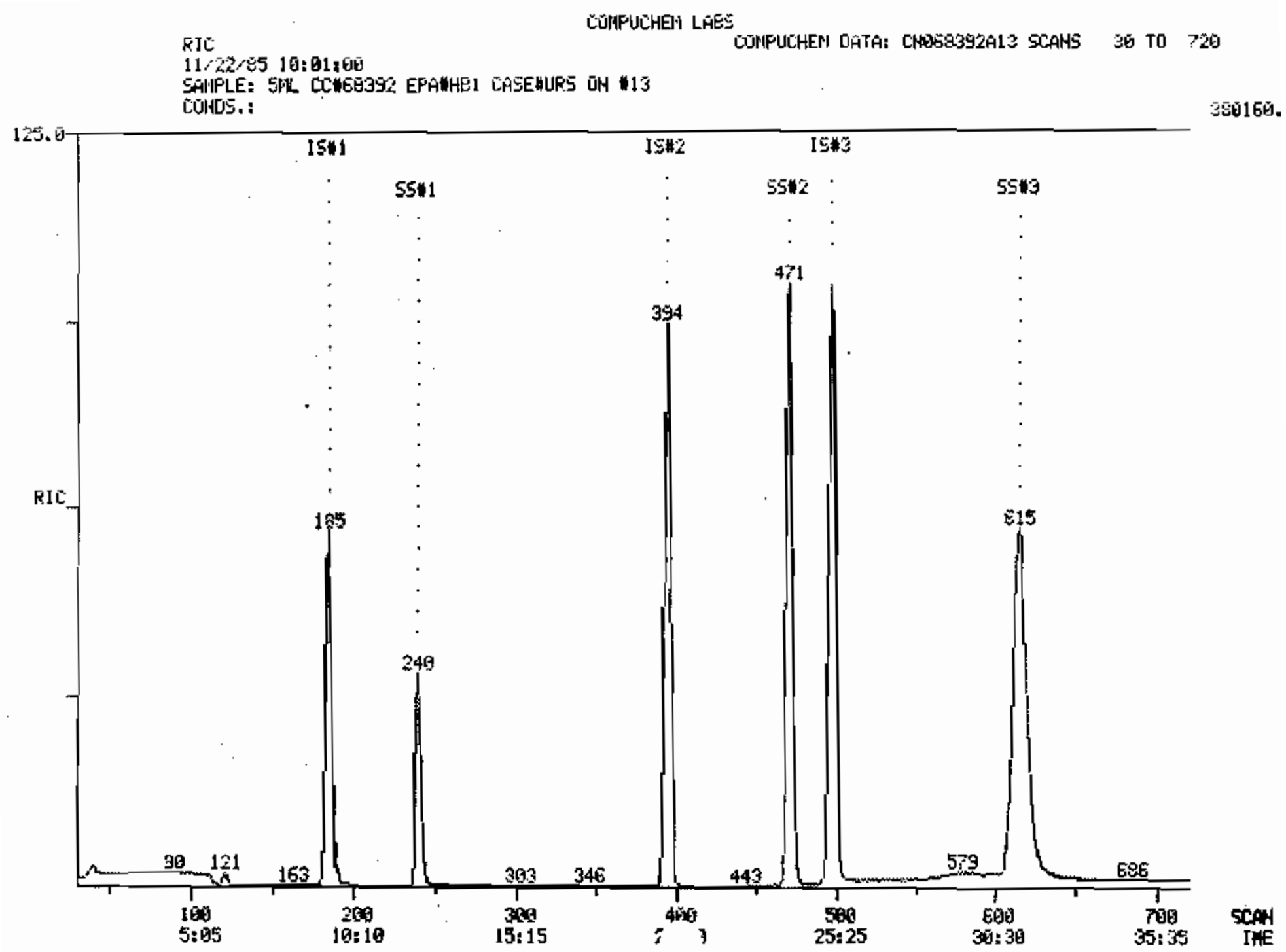
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN068392A13 SCANS 30 TO 720
11/22/85 10:01:00
SAMPLE: SWL CC#68392 EPA#HB1 CASE#URS ON #13
CONDS.:
380160.
125.0
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
471
394
RIC
185
240
815
90
121
163
303
346
443
579
686
100
5:05
200
10:10
300
15:15
400
500
25:25
600
30:30
700
35:35
SCAN
TIME

Internal Standard Area Monitor

Method: E237 Filename: CN068392A13 Date: 11/22/85
Shift Std: CS851122A13 Time: 10:01

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	119023.	120913.	-1.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	524640.	533929.	-1.	Pass
*270 D5-CHLOROBENZENE (IS)	491386.	501336.	-1.	Pass

QUANTITATION REPORT FILE: CN068392A13

DATA: CN068392A13.TI
11/22/85 10:01:00
SAMPLE: 5ML CC#68392 EPA#HB1 CASE#URB ON #13
IDS:
SUBMITTED BY: 13 ANALYST: B91

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLORDETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
	217 1,2-DICHLOROPROPANE
	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	225 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 DS-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P-XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	185	9:24	1	1.000	A BB	119024.	50.000 UG/L	16.77
	50	NOT FOUND							

	M/E	SCAN	TIM							
1	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	121	6:09	1	0.654	A	BB	6313.	2.525 UG/L	0.85
7	43	132	6:43	1	0.714	A	BB	1635.	3.426 UG/L	1.15
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	394	20:02	14	1.000	A	BB	524641.	50.000 UG/L	16.77
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	497	25:16	29	1.000	A	BV	491387.	50.000 UG/L	16.77
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
1	92	NOT FOUND								
3	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	240	12:12	1	1.297	A	BB	135212.	44.783 UG/L	15.02
41	95	615	31:16	29	1.237	A	BB	379958.	48.840 UG/L	16.38
42	98	471	23:57	1	2.546	A	BB	487732.	48.552 UG/L	16.29

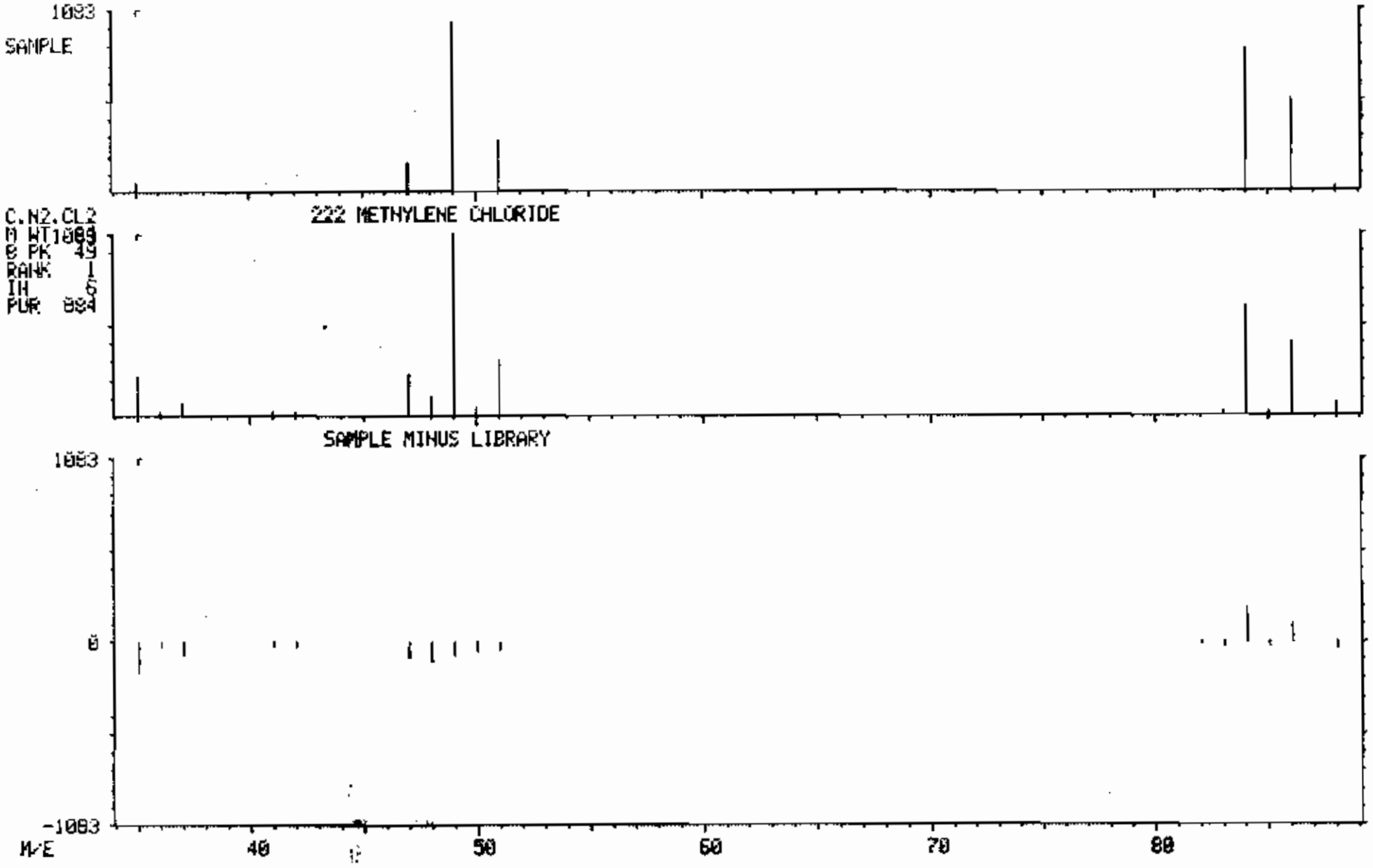
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:27	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38		10.000			50.00		0.354	
3	2:36		10.000			50.00		1.678	
4	3:18		10.000			50.00		1.112	
5	4:13		10.000			50.00		0.741	
6	6:18	0.98	5.000	0.13	2.52	50.00	0.053	1.050	0.05
7	6:52	0.98	10.000	0.07	3.43	50.00	0.014	0.200	0.07
8	7:44		5.000			50.00		3.055	
9	8:57		5.000			50.00		1.141	
10	10:16		5.000			50.00		1.911	
11	10:59		5.000			50.00		1.231	
12	11:35		5.000			50.00		2.328	
13	12:21		5.000			50.00		1.348	
14	19:59	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:12		10.000			50.00		0.022	
16	13:37		5.000			50.00		0.382	
17	14:02		5.000			50.00		0.382	
*8	14:11		10.000			50.00		0.425	
	14:35		5.000			50.00		0.496	
20	15:58		5.000			50.00		0.337	
21	16:16		5.000			50.00		0.198	
22	16:50		5.000			50.00		0.441	
23	17:29		5.000			50.00		0.492	
24	17:35		5.000			50.00		0.348	
25	17:17		5.000			50.00		0.795	
26	17:35		5.000			50.00		0.592	
27	18:42		10.000			50.00		0.219	
28	20:20		5.000			50.00		0.327	
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47		10.000			50.00		0.312	
31	22:25		10.000			50.00		0.204	
32	22:43		5.000			50.00		0.432	
33	22:43		5.000			50.00		0.546	
34	24:03		5.000			50.00		0.615	
35	25:19		5.000			50.00		0.960	
36	27:45		5.000			50.00		0.440	
37	33:06		5.000			50.00		0.987	
38	33:27		5.000			50.00		0.589	
39	34:49		5.000			100.00		0.571	
40	12:15	1.00	10.000	0.13	44.78	50.00	1.136	1.268	0.90
41	31:10	1.00	10.000	0.12	48.84	50.00	0.773	0.792	0.98
42	20:50	1.00	10.000	0.25	48.55	50.00	4.098	4.220	0.97

COMPUCHEM LABS

LIBRARY SEARCH
11/22/85 10:01:00 + 6:09
SAMPLE: SML CC#68392 EPA#NB1 CASE#URS ON #13
ENHANCED (S 150 2N 0T)

DATA: CH068392A13 # 121
BASE M/E: 49
RIC: 5903.

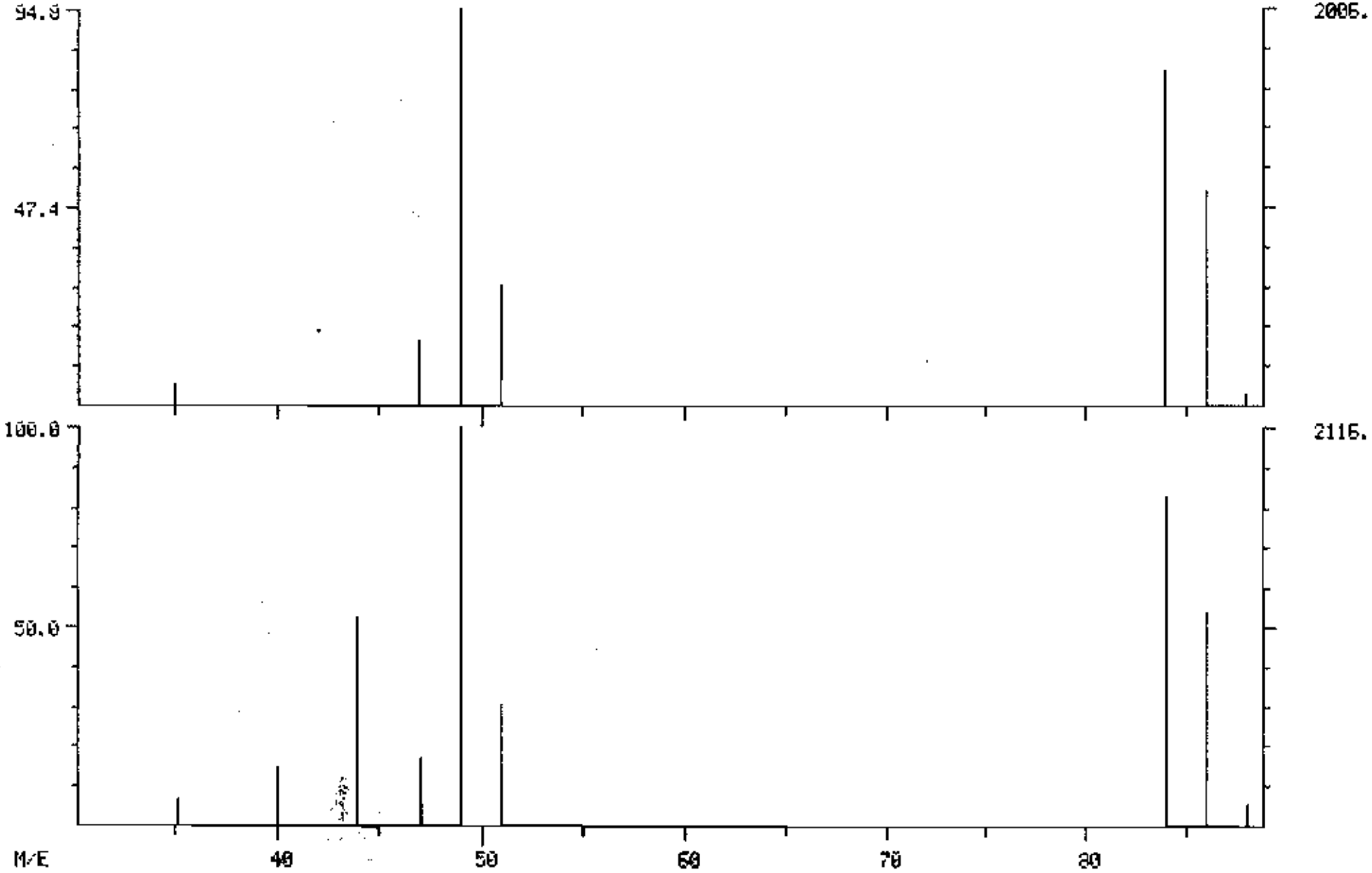


2012

COMPUCHEM LABS

DUAL MASS SPECTRUM
11/22/85 10:01:00 + 6:09
SAMPLE: 5ML CC#68392 EPA#NB1 CASE#URS ON #13
ENHANCED (S 15B 2N)

DATA: CN068392A13 #121 BASE M/E: 49 49
RIC: 5903. 7687.



CASE# URS DUE DATE: 12/10/85

VOA
G/MS WORKSHEET CONPUCHEM# 28392

J1[ ] J3[ ] D1[ ] (:1)

J2[ ] J4[ ] D2[ ] (:1)

QC

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAMPLE ID: Hoc106 Blank BL 290583

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution _____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 0 ul
BFB Filename BJ851122C13 Disk (13))
Blank Filename CB851122A13 Disk ( )
Standard Filename CB851122A13 Disk ( )
Sample Filename CN068392A13 Disk ( )

ANALYST(S): Injection 891 Work-up 891

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FD,SM

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reinject Neat

Quality Assurance Notice(s):
Notices Required 0

[ ] Dilute (:1)

COMMENTS:

GC/MS Review [illegible] Date 12/15/85 Auditor [illegible] Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): CN068392A13 /

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

AC356 (11/84)

12/11/85

received

Volatile - Medium or Low Level Liquid

Chp #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/L)	Detect. Limit (ug/L)
234	128	I	BROMOCHLOROMETHANE (IS)	185	119000.	50.0		
221	50		CHLOROMETHANE				BDL	10.
220	94		BROMOMETHANE				BDL	10.
231	62		VINYL CHLORIDE				BDL	10.
209	64		CHLOROETHANE				BDL	10.
222	84		METHYLENE CHLORIDE			2.5	J	5.
252	43		ACETONE (2-PROPANONE)			~~3.4~~	~~BDL~~	10.
254	76		CARBON DISULFIDE				BDL	5.
216	96		1,1-DICHLOROETHYLENE				BDL	5.
214	63		1,1-DICHLOROETHANE				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM				BDL	5.
215	62		1,2-DICHLOROETHANE				BDL	5.
248	114	I	1,4 DIFLUOROBENZENE (IS)	394	525000.	50.0		
253	72		2-BUTANONE				BDL	10.
227	97		1,1,1-TRICHLOROETHANE				BDL	5.
206	117		CARBON TETRACHLORIDE				BDL	5.
257	43		VINYL ACETATE				BDL	10.
212	83		BROMODICHLOROMETHANE				BDL	5.
217	63		1,2-DICHLORDPROPANE				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5.
229	130		TRICHLOROETHYLENE				BDL	5.
208	129		CHLORODIBROMOMETHANE				BDL	5.
228	97		1,1,2-TRICHLOROETHANE				BDL	5.
3	78		BENZENE				BDL	5.
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL	10.
205	173		BROMOFORM				BDL	5.
270	117	I	D5-CHLOROBENIENE (IS)	497	491000.	50.0		
255	43		2-HEXANONE				BDL	10.
256	43		4-METHYL-2-PENTANONE				BDL	10.
224	164		TETRACHLOROETHENE				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5.
225	92		TOLUENE				BDL	5.
207	112		CHLOROBENZENE				BDL	5.
219	106		ETHYLBENZENE				BDL	5.
251	104		STYRENE				BDL	5.
240	106		M-XYLENE				BDL	5.
271	106		O,P-XYLENE				BDL	5.
256	65	S	D4-1,2-DICHLOROETHANE			44.8	90. %	
247	95	S	BROMOFLUOROBENZENE			48.8	98. %	
233	98	S	D8-TOLUENE			48.6	97. %	
Checksums:								
1964.	744			1076	1135000.	298.1	285.	

BDL 11-25-85

Volatile - Medium or Low Level Liquid

...	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	44.8	50.0	90.	77-120	X	
41	247	BROMOFLUOROBENZENE	48.8	50.0	98.	85-121	X	
42	233	DB-TOLUENE	48.6	50.0	97.	86-119	X	

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
BH068820D2I

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem
Concentration: low
Date extracted/prepared: 11-23-85
Date analyzed: 12-05-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

SAMPLE NUMBER B1

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH050827C21

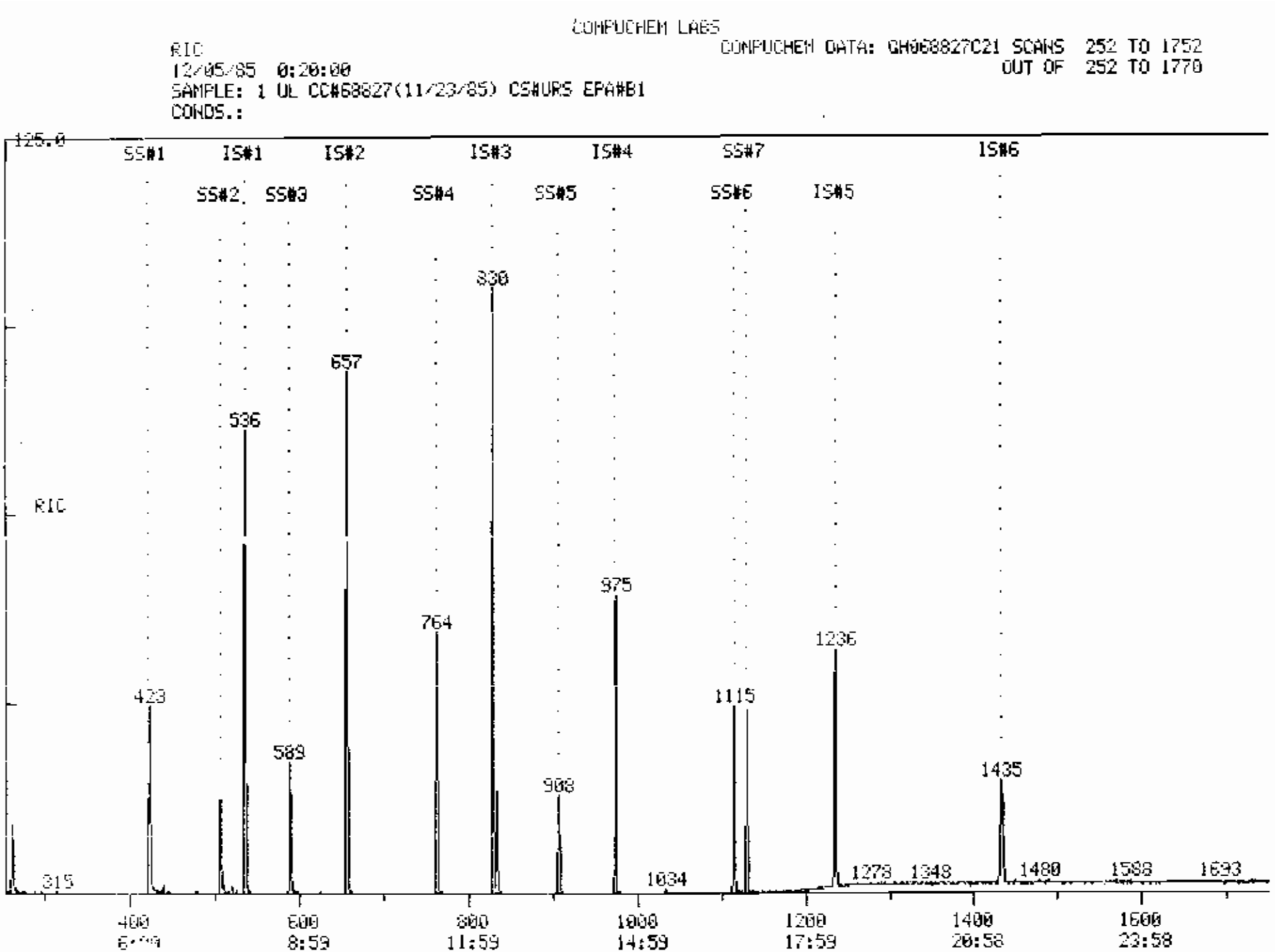
TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-87-2	Hydrocarbon CYCLOHEXANE, METHYL-	SEMI3	262	16.	J

2.000 40.00

SPECTROSCOPIST SK

DATE 11/5/02


COMPUCHEM LABS
RIC
12/05/85 0:20:00
SAMPLE: 1 UL CC#68827(11/23/85) CS#URS EPA#B1
CONDS.:
COMPUCHEM DATA: GH068827C21 SCANS 252 TO 1752
OUT OF 252 TO 1770
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
830
657
536
RIC
975
764
1236
423
1115
589
1435
908
315
1034
1278
1348
1480
1588
1693
400
6:59
800
8:59
1000
11:59
1200
14:59
1400
17:59
1600
20:58
23:58

RIC COMPUCHEM DATA: GH068827C21 SCANS 1752 TO 1770
12/05/85 0:20:00 OUT OF 252 TO 1770
SAMPLE: 1 UL CC#68827(11/23/85) CS#URS EPA#81
CONDS.:

360320.

SCAN
TIME

METHOD: SEMI3 FILENAME: GH068827C21 DATE: 12/05/85
SHIFT STD: HH851204B21 TIME: 0:20

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	62519.	57775.	8.	PASS
*460 D8-NAPHTHALENE (IS#2)	199759.	198331.	1.	PASS
*495 D10-ACENAPHTHENE (IS#3)	97799.	97283.	1.	PASS
*467 D10-PHENANTHRENE (IS#4)	119515.	141459.	-15.	PASS
*459 D12-CHRYSENE (IS#5)	75135.	91519.	-17.	PASS
*497 D12-PERYLENE (IS#6)	59171.	88335.	-32.	PASS

DATA: GH068827C21.TI
12/05/85 0:20:00
SAMPLE: 1 UL CC#68827(11/23/85) CS#URS EPA#81
CONDS :
SUBMITTED BY: 21 ANALYST: 917

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (BB#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (BS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	536	8:02	1	1.000	A BV	62520.	40.000 NG	9.76
2	42	NOT FOUND							
3	94	NOT FOUND							
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	108	NOT FOUND							
14	70	NOT FOUND							
15	117	NOT FOUND							
16	77	NOT FOUND							
17	136	657	9:51	17	1.000	A BB	199760.	40.000 NG	9.76
18	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TGT
19	139	NOT FOUND							
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	160	NOT FOUND							
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	NOT FOUND							
29	142	NOT FOUND							
30	164	830	12:26	30	1.000	A BB	97800.	40.000 NG	9.76
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	NOT FOUND							
37	152	NOT FOUND							
38	136	NOT FOUND							
39	153	NOT FOUND							
40	184	NOT FOUND							
41	139	NOT FOUND							
42	168	NOT FOUND							
43	89	NOT FOUND							
44	165	NOT FOUND							
45	149	NOT FOUND							
46	204	NOT FOUND							
47	166	NOT FOUND							
48	138	NOT FOUND							
49	188	974	14:35	49	1.000	A BV	119516.	40.000 NG	9.76
50	198	NOT FOUND							
51	169	NOT FOUND							
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	NOT FOUND							
55	178	NOT FOUND							
56	178	NOT FOUND							
57	149	NOT FOUND							
58	202	NOT FOUND							
59	240	1235	18:30	59	1.000	A BB	75136.	40.000 NG	9.76
60	184	NOT FOUND							
61	202	NOT FOUND							
62	149	NOT FOUND							
63	252	NOT FOUND							
64	228	NOT FOUND							
65	149	NOT FOUND							
66	228	NOT FOUND							
67	264	1435	21:30	67	1.000	A BV	59172.	40.000 NG	9.76
68	149	NOT FOUND							
69	252	NOT FOUND							
70	252	NOT FOUND							
71	252	NOT FOUND							
72	276	NOT FOUND							
73	278	NOT FOUND							
74	276	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
75	112	423	6:20	1	0.789	A BV	60196.	29.993	NG	7.32
76	99	506	7:35	1	0.944	A BV	41076.	15.839	NG	3.86
77	82	589	8:49	17	0.896	A BB	37868.	18.957	NG	4.63
78	172	763	11:26	30	0.919	A BV	88668.	24.360	NG	5.94
79	141	908	13:36	30	1.094	A BB	6016.	24.287	NG	5.93
80	244	1130	16:56	59	0.915	A BB	60056.	29.334	NG	7.16
81	212	1115	16:42	59	0.903	A BB	72596.	27.125	NG	6.62
82	216	NOT FOUND								

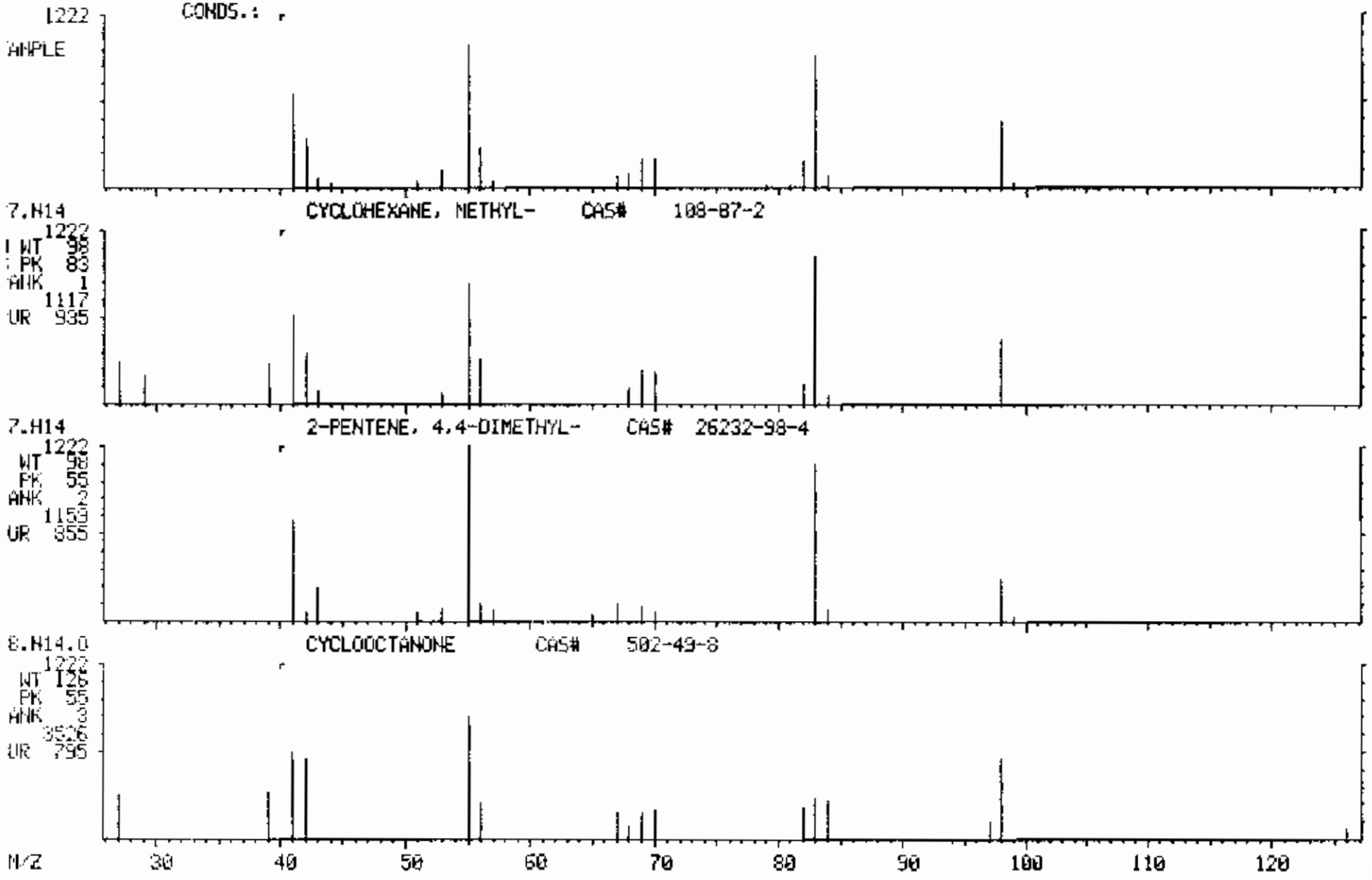
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	8:03	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	4:13		10.000			50.00		0.909	
3	7:37		10.000			50.00		1.972	
4	7:38		10.000			50.00		1.498	
5	7:43		10.000			50.00		1.557	
6	7:47		10.000			50.00		1.369	
7	7:59		10.000			50.00		1.563	
8	8:04		10.000			50.00		1.722	
9	8:15		10.000			50.00		0.490	
10	8:20		10.000			50.00		1.543	
11	8:26		10.000			50.00		1.247	
12	8:30		10.000			50.00		1.458	
13	8:38		10.000			50.00		1.278	
14	8:40		10.000			50.00		1.047	
15	8:47		10.000			50.00		0.795	
16	8:52		10.000			50.00		1.336	
17	9:51	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	9:13		10.000			50.00		0.680	
19	9:20		10.000			50.00		0.209	
20	9:24		10.000			50.00		0.323	
21	9:32		50.000			50.00		0.099	
22	9:32		10.000			50.00		0.426	
23	9:41		10.000			50.00		0.307	
24	9:48		10.000			50.00		0.385	
25	9:53		10.000			50.00		1.103	
26	9:59		10.000			50.00		0.418	
27	10:10		10.000			50.00		0.209	
28	10:41		10.000			50.00		0.482	
29	10:54		10.000			50.00		0.680	
30	12:27	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	11:14		10.000			50.00		0.338	
32	11:20		10.000			50.00		0.404	
33	11:24		50.000			50.00		0.408	
34	11:37		10.000			50.00		1.357	
35	11:46		50.000			50.00		0.298	
36	12:05		10.000			50.00		1.413	
37	12:13		10.000			50.00		1.881	
38	12:22		50.000			50.00		0.294	
39	12:31		10.000			50.00		1.286	
40	12:32		50.000			50.00		0.114	
41	12:37		50.000			50.00		0.196	
42	12:44		10.000			50.00		1.671	
43	12:46		10.000			50.00		0.346	
44	12:11		10.000			50.00		0.318	
45	13:08		10.000			50.00		1.454	
46	13:14		10.000			50.00		0.647	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	13:15		10.000			50.00		1.400	
48	13:18		50.000			50.00		0.276	
49	14:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	13:22		50.000			50.00		0.090	
51	13:24		10.000			50.00		0.630	
52	13:57		10.000			50.00		0.247	
53	14:10		10.000			50.00		0.303	
54	14:26		50.000			50.00		0.074	
55	14:39		10.000			50.00		1.171	
56	14:43		10.000			50.00		1.084	
57	15:30		10.000			50.00		1.438	
58	16:25		10.000			50.00		1.033	
59	18:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	16:43		50.000			50.00		0.017	
61	16:45		10.000			50.00		1.597	
62	17:42		10.000			50.00		0.746	
63	18:26		20.000			50.00		0.370	
64	18:31		10.000			50.00		1.364	
65	18:34		10.000			50.00		1.315	
66	18:35		10.000			50.00		1.253	
67	21:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	19:38		10.000			50.00		2.756	
69	20:39		10.000			50.00		2.631	
70	20:39		10.000			50.00		2.631	
71	21:24		10.000			50.00		1.200	
72	25:04		10.000			50.00		1.304	
73	25:07		10.000			50.00		1.078	
74	26:08		10.000			50.00		1.003	
75	6:20	1.00	0.742	1.06	29.99	50.00	0.770	1.284	0.60
76	7:36	1.00	0.948	1.00	15.84	50.00	0.526	1.659	0.32
77	8:50	1.00	0.875	1.02	18.96	50.00	0.152	0.400	0.38
78	11:28	1.00	0.906	1.01	24.36	50.00	0.725	1.489	0.49
79	13:37	1.00	1.118	0.98	24.29	50.00	0.049	0.101	0.49
80	16:57	1.00	0.907	1.01	29.33	50.00	0.639	1.090	0.59
81	16:43	1.00	10.000	0.09	27.12	50.00	0.773	1.425	0.54
82	11:37		1.000			50.00		0.326	

COMPUCHEM LABS

MID LIBRARY SEARCH
12/05/85 0:20:00 + 3:55
SAMPLE: 1 UL CC#68827(11/23/85) CS#URS EPA#B1
CONDS.: ,

DATA: GH068827C21 # 262 BASE M/Z: 55
ENHANCED (100 2N 0T) RIC: 32319.



CASE#: URS DUE DATE: 12-17-85

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 68827

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SAS: EPA#: Blank 1

GC/MS ANALYSIS

Volumes mixed: BN 200 ul Acid ul
Internal Standard Volume Added 5.0 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 11/23/85
DFTPP Filename DF85120421 Disk (3031)
Standard Filename HH85120421 Disk (↵)
Sample Filename GH068827C21 Disk (↵)

ANALYST(S): Injection 917 Work-up 917

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PN,FL,JS
FH,NL,NN,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SU,CT,CS,PC,OT,NS
ED,IF,LA,DI,CO,RN,DW,DA

Extraneous Peak Search Results:
# of Peaks Found:

Quality Assurance Notice(s):
Notices Required

COMMENTS: PK20124

Disposition:
[X] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review SC Date 12/5/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections: 6
Final Reportable Package(s): /

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date /

12/5/85 12/5/85 EPAWATER

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	536	62500.	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	20
610	94		PHENOL (G1#3) <108-95-2>				BDL	20
473	93		ANILINE (G1#4) <62-53-3>				BDL	20
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	20
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	20
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	20
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	20
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	20.
412	45		DIS(2-CHLOROISOPROPYL)ETHER				BDL	20
622	108		4-METHYLPHENOL (G1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	20
440	77		NITROBENZENE (G1#16) <98-95				BDL	2?
460	136	I	D8-NAPHTHALENE (IS#2)	657	200000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	20
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	20
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	20
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	20.
446	180		1,2,4-TRICHLORODENZENE (G2#				BDL	20.
439	128		NAPHTHALENE (G2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	20
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	20.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	20
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	20
495	164	I	D10-ACENAPHTHENE (IS#3)	830	97800.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	100
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	20.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	20.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	100
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	20
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	100
607	139		4-NITROPHENOL (G3#12) <100-				BDL	100.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	20.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (G3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	974	120000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100
143	169		N-NITROSODIPHENYLAMINE (G4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	100.

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L
444	178		PHENANTHRENE (Q4#7) <85-01-				BDL	2
403	178		ANTHRACENE (Q4#8) <120-12-7				BDL	2
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	2
431	202		FLUORANTHENE (Q4#10) <206-4				BDL	2
459	240	I	D12-CHRYSENE (IS#5)	1235	75100.	40.0		
404	184		BENZIDINE (Q5#2) <92-87-5>				BDL	10
445	202		PYRENE (Q5#3) <129-00-0>				BDL	2
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	2
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	4
405	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	2
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	2
418	228		CHRYSENE (Q5#8) <218-01-9>				BDL	2
497	264	I	D12-PERYLENE (IS#6)	1435	59200.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	2
407	252		BENZO(B)FLUORANTHENE (Q6#3)				BDL	2
409	252		BENZO(K)FLUORANTHENE (Q6#4)				BDL	2
406	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	2
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	2
419	276		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	2
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	2
619	112	S	2-FLUOROPHENOL (SS#1)			30.0	60. %	
612	99	S	D5-PHENOL (SS#2)			15.8	32. %	
447	82	S	D5-NITROBENZENE (SS#3)			19.0	76. %	
448	172	S	2-FLUOROBIPHENYL (SS#4)			24.4	97. %	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			24.3	48. %	
76	244	S	D14-TERPHENYL (SS#6)			29.3	117. %	
471	212	S	D10-PYRENE			27.1	108. %	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	2
CHECKSUMS:								
.6593.	2206			5667	614600.	409.9	538.	

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND:	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	F
75	619	2-FLUOROPHENOL (SS#1)	30.0	50.0	60.	23-121	X
76	612	D5-PHENOL (SS#2)	15.8	50.0	32.	15-103	X
77	447	D5-NITROBENZENE (SS#3)	19.0	25.0	76.	41-120	X
78	448	2-FLUOROBIPHENYL (SS#4)	24.4	25.0	97.	44-119	X
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	24.3	50.0	48.	10-130	X
80	496	D14-TERPHENYL (SS#6)	29.3	25.0	117.	33-128	X
81	471	D10-PYRENE	27.1	25.0	10E.	33-126*	X

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1000.\text{ML}}{1000.\text{ML}} \times \frac{1.0}{1} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{500 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{500\text{ UL}}{500\text{ UL}} \times \frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1.0}{1} \times 2 = 2.000$$

1 10

KH 4/h

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO Kerry + Audrey

DATE ASSIGNED 11-23-85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
68386	-56	URS	—	BS		500 ml		0.5	0.5		13	1	11/23	0.25ml of surrogate and spikes added and samples were diluted to 0.5ml. Samples were diluted to 1000 ml with distilled water.
68387		URS	—	SS	68351	500 ml		0.5	0.5		13	1	11/23	
68388		URS	—	SS	68351	500 ml		0.5	0.5		13	1	11/23	
68380		URS	—			1000 ml		1.0	1.0		13	1	11/23	
68381		URS	—			1000 ml		1.0	1.0		13	1	11/23	
68382		URS	—			1000 ml		1.0	1.0		13	1	11/23	
68390		URS	—			1000 ml		1.0	1.0		13	1	11/23	
68391		URS	—			1000 ml		1.0	1.0		13	1	11/23	
68827				B1		1000 ml		1.0	1.0		13	1	11/23	
68828	↓			B2		1000 ml		1.0	1.0		13	1	11/23	

		S-Vol	Acid	B/N	PesL	TCDO	Other
SURROGATE	NO.	393					
	AMT	0.5ml					
	LOT	16125					
SPIKE	NO.		3012	2021			
	AMT.		0.5ml	0.5ml			
	LOT		16164	11103			

MANUAL COUNTER 272/676

FINAL VOLUME VERIFIED KH

SUPERVISOR REVIEWED M.A

EXTRACTS RECEIVED BY KH 11/25/85

Issued 11-25-85 PA

No 96

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: ComputChem

Concentration: low
Date extracted/prepared: 12-05-85
Date analyzed: 12-06-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxyl methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

Environmental Protection Agency CLP Sample Management Office
P O Box 818 Alexandria Virginia 22313 703/557-2490

Sample Number
GJ0G771A22

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	None	SV	—	ug/l
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

COMPUCHEM LABS

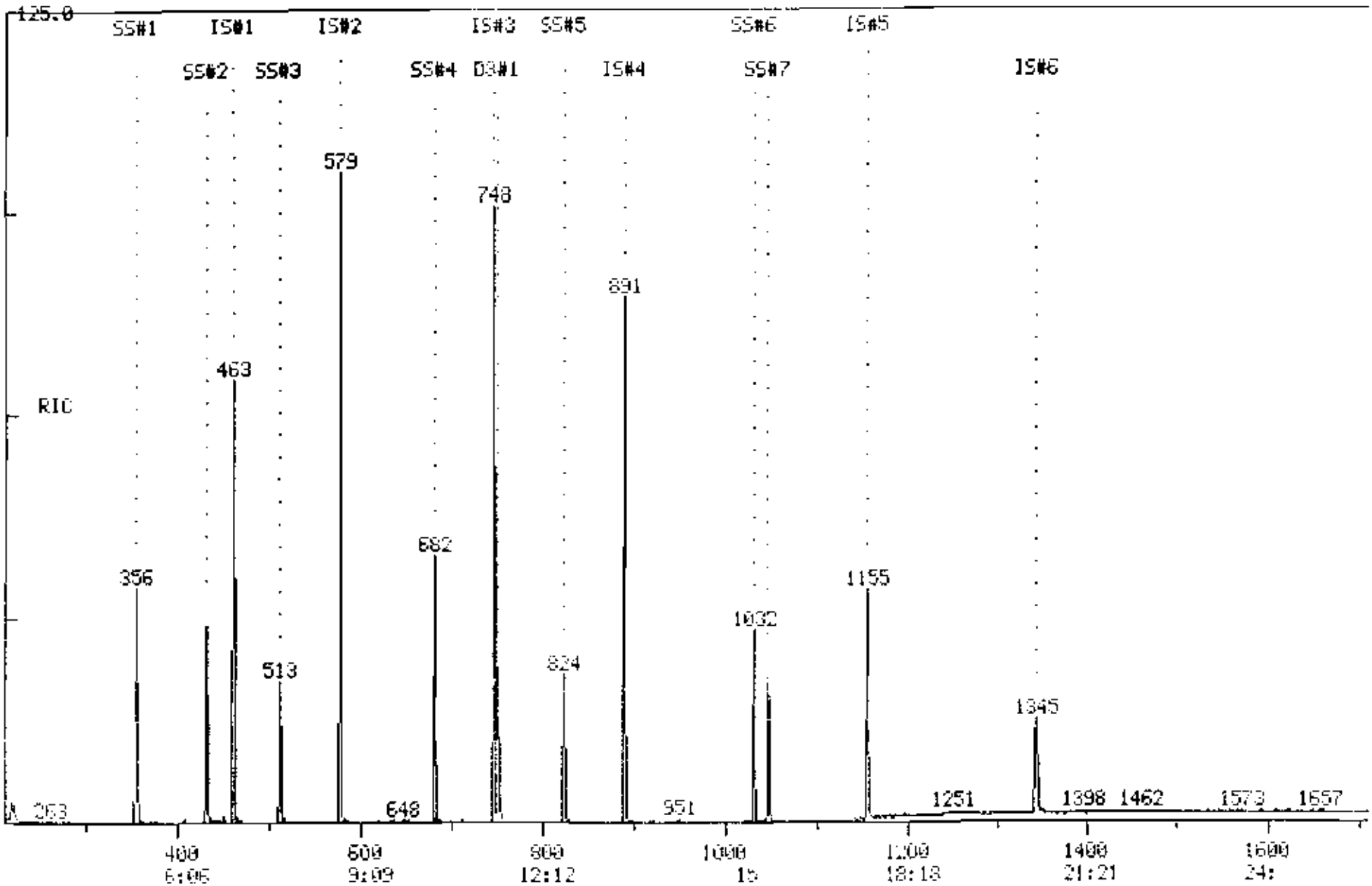
RIC

COMPUCHEM DATA: GJ069771A22 SCANS 211 TO 1711
OUT OF 211 TO 1750

12/06/85 15:27:00

SAMPLE: 11UL CC#69771J CASE#5195 EPA#BLANK 12/5/85 ON#22

CONDS.:



COMPUCHEM LABS

RIC COMPUCHEM DATA: GJ069771A22 SCANS 1711 TO 1750
12/06/85 15:27:00 OUT OF 211 TO 1750
SAMPLE: 11UL CC#69771J CASE#5195 EPA#BLANK 12/5/85 ON#22
CONDS.: 253760.

SCAN
TIME

METHOD: SEMI3 FILENAME: GJ069771A22 DATE: 12/06/85
SHIFT STD: HG851206A22 TIME: 15:27

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	35285.	54945.	-35.	PASS
*460 D8-NAPHTHALENE (IS#2)	118297.	180425.	-33.	PASS
*495 D10-ACENAPHTHENE (IS#3)	55893.	83863.	-32.	PASS
*467 D10-PHENANTHRENE (IS#4)	80537.	115183.	-29.	PASS
*459 D12-CHRYSENE (IS#5)	39877.	80257.	-49.	PASS
*497 D12-PERYLENE (IS#6)	41983.	69549.	-39.	PASS

12-9-85

```
QUANTITATION REPORT     FILE: GJ069771A22

DATA: GJ069771A22.TI
12/06/85 15.27:00
  MPLE: 11UL CC#69771J CASE#5195 EPA#BLANK 12/5/85 ON#22
CONDS.:
SUBMITTED BY: #22            ANALYST: 874

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
  3  610 PHENOL (Q1#3) <108-95-2>
  4  473 ANILINE (Q1#4) <62-53-3>
  5  411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
  6  601 2-CHLOROPHENOL (Q1#6) <95-57-8>
  7  421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
  8  422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
  9  474 BENZYL ALCOHOL (Q1#9) <100-51-6>
 10  420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
 11  620 2-METHYLPHENOL (Q1#11) <95-48-7>
 12  412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
 13  622 4-METHYLPHENOL (Q1#13) <106-44-5>
 14  442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
 15  436 HEXACHLOROETHANE (Q1#15) <67-72-1>
 16  440 NITROBENZENE (Q1#16) <98-95-3>
 17  *460 D8-NAPHTHALENE (IS#2)
 18  438 ISOPHORONE (Q2#2) <78-59-1>
 19  606 2-NITROPHENOL (Q2#3) <88-75-5>
 20  603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
 21  625 BENZOIC ACID (Q2#5) <65-85-0>
 22  410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
 23  602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
 24  446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
 25  439 NAPHTHALENE (Q2#9) <91-20-3>
 26  475 4-CHLOROANILINE (Q2#10) <106-47-8>
 27  434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
 28  608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
 29  477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
 30  *495 D10-ACENAPHTHENE (IS#3)
 31  435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
 32  611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
 33  626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
 34  416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
 35  478 2-NITROANILINE (Q3#6) <88-74-4>
 36  425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
 37  402 ACENAPHTHYLENE (Q3#8) <208-96-8>
 38  479 3-NITROANILINE (Q3#9) <99-09-2>
 39  401 ACENAPHTHENE (Q3#10) <83-32-9>
 40  @ 605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
 41  607 4-NITROPHENOL (Q3#12) <100-02-7>
 42  476 DIBENZOFURAN (Q3#13) <132-64-9>
 43  427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
 44  428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
 45  424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
 46  417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
```

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
9	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
5	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	463	7:04	1	1.000	A BD	35286.	40.000 NG	9.40
2	42	NOT FOUND							
3	94	NOT FOUND							
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	108	NOT FOUND							
14	70	NOT FOUND							
15	117	NOT FOUND							
16	77	NOT FOUND							
17	136	579	8:50	17	1.000	A BV	118298.	40.000 NG	9.40
18	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	NOT FOUND							
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	NOT FOUND							
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	NOT FOUND							
29	142	NOT FOUND							
30	164	748	11:25	30	1.000	A BB	55894.	40.000 NG	9.40
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	NOT FOUND							
37	152	NOT FOUND							
38	138	NOT FOUND							
39	153	NOT FOUND							
40	184	NOT FOUND							
41	139	NOT FOUND							
42	168	NOT FOUND							
43	89	NOT FOUND							
44	165	NOT FOUND							
45	149	NOT FOUND							
46	204	NOT FOUND							
47	166	NOT FOUND							
48	138	NOT FOUND							
49	188	891	13:35	49	1.000	A BV	80538.	40.000 NG	9.40
50	198	NOT FOUND							
51	169	NOT FOUND							
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	NOT FOUND							
55	178	NOT FOUND							
56	178	NOT FOUND							
57	149	NOT FOUND							
58	202	NOT FOUND							
59	240	1155	17:37	59	1.000	A BV	39878.	40.000 NG	9.40
60	184	NOT FOUND							
61	202	NOT FOUND							
62	149	NOT FOUND							
63	252	NOT FOUND							
64	228	NOT FOUND							
65	149	NOT FOUND							
66	228	NOT FOUND							
67	264	1345	20:31	67	1.000	A BV	41984.	40.000 NG	9.40
68	149	NOT FOUND							
69	252	NOT FOUND							
70	252	NOT FOUND							
71	252	NOT FOUND							
72	276	NOT FOUND							
73	278	NOT FOUND							
74	276	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	356	5:26	1	0.769	A BB	31358.	30.800 NG	7.24
76	99	433	6:36	1	0.935	A*BV	24458.	19.638 NG	4.61
77	82	513	7:50	17	0.886	A BV	23176.	18.207 NG	4.28
78	172	682	10:24	30	0.912	A BV	37128.	19.265 NG	4.53
79	141	824	12:34	30	1.102	A BB	5518.	39.083 NG	9.18
80	244	1048	15:59	59	0.907	A BV	30586.	30.266 NG	7.11
81	212	1032	15:44	59	0.894	A BV	39614.	28.600 NG	6.72
82	216	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:04	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:41		10.000			50.00		1.088	
3	6:38		10.000			50.00		1.852	
4	6:40		10.000			50.00		1.283	
5	6:45		10.000			50.00		1.550	
6	6:50		10.000			50.00		1.535	
7	7:01		10.000			50.00		1.424	
8	7:06		10.000			50.00		1.733	
9	7:16		10.000			50.00		0.467	
10	7:21		10.000			50.00		1.221	
11	7:27		10.000			50.00		1.091	
12	7:29		10.000			50.00		2.623	
13	7:35		10.000			50.00		1.258	
14	7:40		10.000			50.00		1.302	
15	7:47		10.000			50.00		0.624	
16	7:52		10.000			50.00		1.418	
17	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:11		10.000			50.00		0.892	
19	8:19		10.000			50.00		0.203	
20	8:22		10.000			50.00		0.339	
21	8:30		50.000			50.00		0.190	
22	8:30		10.000			50.00		0.462	
23	8:39		10.000			50.00		0.286	
24	8:46		10.000			50.00		0.342	
25	8:52		10.000			50.00		1.106	
26	8:57		10.000			50.00		0.161	
27	9:08		10.000			50.00		0.207	
28	9:37		10.000			50.00		0.355	
29	9:51		10.000			50.00		0.639	
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:11		10.000			50.00		0.214	
32	10:17		10.000			50.00		0.387	
33	10:21		50.000			50.00		0.388	
34	10:33		10.000			50.00		1.345	
35	10:43		50.000			50.00		0.452	
36	11:02		10.000			50.00		1.439	
37	11:11		10.000			50.00		1.789	
38	11:20		50.000			50.00		0.069	
39	11:27		10.000			50.00		1.284	
40	11:28		50.000			50.00		0.052	
41	11:33		50.000			50.00		0.213	
42	11:41		10.000			50.00		1.604	
43	11:42		10.000			50.00		0.406	
44	11:07		10.000			50.00		0.248	
45	12:04		10.000			50.00		1.552	
46	12:11		10.000			50.00		0.585	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	12:12		10.000			50.00		1.289	
48	12:14		50.000			50.00		0.172	
49	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:19		50.000			50.00		0.065	
51	12:21		10.000			50.00		0.459	
52	12:54		10.000			50.00		0.230	
53	13:08		10.000			50.00		0.322	
54	13:24		50.000			50.00		0.118	
55	13:37		10.000			50.00		1.155	
56	13:42		10.000			50.00		1.196	
57	14:29		10.000			50.00		1.556	
58	15:25		10.000			50.00		1.114	
59	17:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:44		50.000			50.00		0.018	
61	15:46		10.000			50.00		1.693	
62	16:46		10.000			50.00		0.757	
63	17:32		20.000			50.00		0.203	
64	17:36		10.000			50.00		1.232	
65	17:41		10.000			50.00		1.161	
66	17:40		10.000			50.00		1.174	
67	20:32	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:47		10.000			50.00		1.665	
69	19:40		10.000			100.00		1.267	
70	19:40		10.000			100.00		1.267	
71	20:23		10.000			50.00		1.189	
72	24:01		10.000			50.00		1.239	
73	24:04		10.000			50.00		1.019	
74	25:02		10.000			50.00		1.079	
75	5:28	0.99	0.742	1.04	30.80	50.00	0.711	1.154	0.62
76	6:38	1.00	0.948	0.99	19.64	50.00	0.555	1.412	0.39
77	7:50	1.00	0.875	1.01	18.21	50.00	0.157	0.430	0.36
78	10:24	1.00	0.906	1.01	19.27	50.00	0.531	1.379	0.39
79	12:34	1.00	1.118	0.99	39.08	50.00	0.079	0.101	0.78
80	15:59	1.00	0.907	1.00	30.27	50.00	0.614	1.014	0.61
81	15:44	1.00	10.000	0.09	28.60	50.00	0.795	1.389	0.57
82	10:34		1.000			50.00		0.290	

CASE#: DUE DATE:

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 69715

J1 [✓] R1 [ ] D1 [ ] C [:1]

J2[ ] R2[ ] D2[ ] C [:1]

LOW LEVEL LIQUID
Deliverable Code 869

Sample Prep Code---856
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---835 (added by GC/MS)

BAS: EPAS:

GC/MS ANALYSIS

Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 12/5/85
DFTPP Filename PE851206A21 Disk (2700)
Standard Filename PE851206A2: Disk (1)
Sample Filename PE69771A21 Disk (.)

ANALYST(S): Injection SJ4 Work-up SJK

GC/MS REVIEW

CONDITION CODE: JA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,HL,HH,YL,SL,SH,SH,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,DT,NS
ED,IF,LA,DI,CO,RN,DU,DA

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reinjection required

[ ] Reextraction required

Quality Assurance Notice(s):
Notices Required

[ ] Dilute (:1)

COMMENTS:

[ ] Reinject Neat

[ ] Send to BA

GC/MS Review PWH Date 12/9/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections:

Final Reportable Package(s): GJ69771A21 /

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

COMPUCHEM # 069771 FILE: GJ069771A22 COMPOUND LIST 142 PAGE 1
SEMI-VOLATILE - LIQUID

Tmp	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (1S#	463	35300.	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	20.
610	94		PHENOL (G1#3) <108-95-2>				BDL	20
473	93		ANILINE (G1#4) <62-53-3>				BDL	20
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	20.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	20
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	20
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	20.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	20.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	20.
440	77		NITROBENZENE (G1#16) <98-95				BDL	20
460	136	I	D8-NAPHTHALENE (IS#2)	579	118000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	20
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	20.
76	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	20.
9	128		NAPHTHALENE (G2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	20.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	20.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	20.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	748	55900.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	100
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	20
478	65		2-NITROANILINE (G3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	20.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (G3#10) <E3-32				BDL	20
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	100.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	100
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	20
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20
432	166		FLUORENE (G3#18) <86-73-7>				BDL	20
480	138		4-NITROANILINE (G3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	891	80500.	40.0		
4	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
73	169		N-NITROSODIPHENYLAMINE (G4#				BDL	20
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	100.

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20
459	240	I	D12-CHRYSENE (IS#5)	1155	39900.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>				BDL	100.
445	202		PYRENE (G5#3) <129-00-0>				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1345	42000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
427	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			30.8	62.%	
612	99	S	D5-PHENOL (SS#2)			19.6	39.%	
447	82	S	D5-NITROBENZENE (SS#3)			16.2	73.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			19.3	77.%	
3	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			39.1	78.%	
6	244	S	D14-TERPHENYL (SS#6)			30.3	121 %	
471	212	S	D10-PYRENE			28.6	114.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	2.
CHECKSUMS								
6593	2206			5161	371600.	425.9	564	

pH 10-9-85

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	30.8	50.0	62.	23-121	X	
76	612	D5-PHENOL (SS#2)	19.6	50.0	39.	15-103	X	
77	447	D5-NITROBENZENE (SS#3)	18.2	25.0	73.	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	19.3	25.0	77.	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	39.1	50.0	78.	10-130	X	
80	496	D14-TERPHENYL (SS#6)	30.3	25.0	121.	33-128	X	
81	471	D10-PYRENE	28.6	25.0	114.	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1.0\text{ML}}{1.0\text{ML \& 1.0ML}} \times \frac{1000.\text{ML}}{1000.\text{ML}} \times \frac{1.0}{} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{500\ \text{UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{500\ \text{UL}}{500\ \text{UL}} \times \frac{1.0\text{ML}}{1.0\text{ML \& 1.0ML}} \times \frac{1.0}{} \times 2 = 2.000$$

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

ASSIGNED TO: Cyril & Yvette

DATE ASSIGNED 12/5/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
67657K	-56	5795	BD595			1000ml		1ml	1ml		13	1	12/5	
67632K	↓	5795	BD451			1000ml		1ml	1ml		13	1	12/5	
68388K	↓	UKS		SS	68381	500ml		0.5ml	0.5ml		13	1	12/5	273/598 use 68381 Added 50.0ml of Calamel ... to 500ml ... used ... surrogate.
68387K	↓	UKS		SS	68381	500ml		0.5ml	0.5ml		13	1	12/5	
67887K	↓	5795	BD473			1000ml		1ml	1ml		13	1	12/5	
67850K	↓	5795	BD729			1000ml		1ml	1ml		13	1	12/5	
69771	↓			B1		1000ml		1ml	1ml		13	1	12/5	
69772	↓			B2		1000ml		1ml	1ml		13	1	12/5	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	16181					
SPIKE	NO.		3012	2021			
	AMT.		0.250ml	0.250ml			
	LOT		1616E	16226			

MANUAL COUNTER 272/693

FINAL VOLUME VERIFIED [signature]

SUPERVISOR REVIEWED [signature]

EXTRACTS RECEIVED BY [signature] 12/5/85

№ 7861

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
SAMPLE # 6 MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 65394
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 11-22-85
Date analyzed: 11-22-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	1.4	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	3.8	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	5.2	J	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

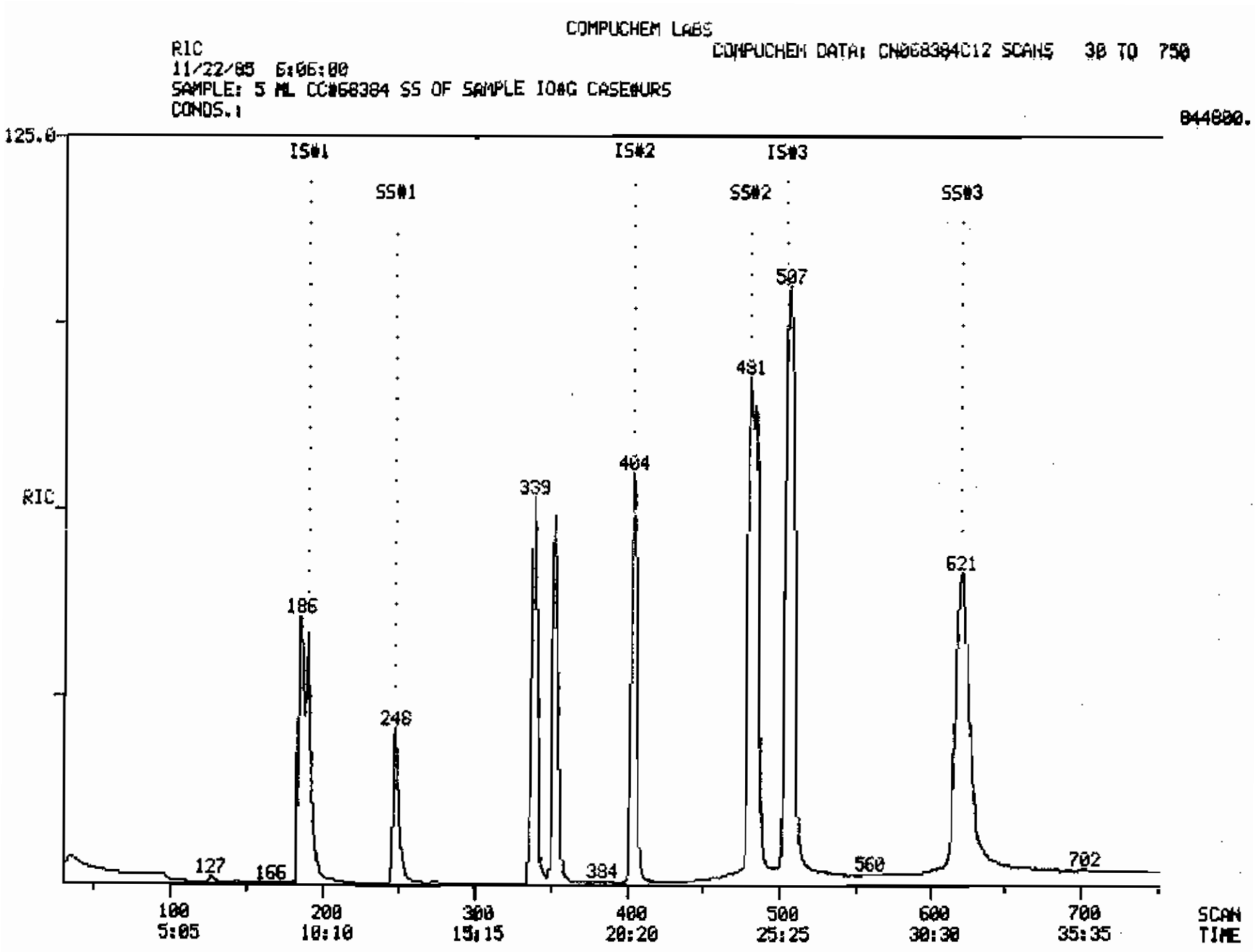
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
SAMPLE #6 MS

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE	VOA	—	ug/l
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
11/22/85 6:06:00
SAMPLE: 5 ML CC#68384 SS OF SAMPLE IO#G CASE#URS
CONDS.:
COMPUCHEM DATA: CN068384C12 SCANS 30 TO 750
844000.
125.0
RIC
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
507
481
404
339
621
186
248
127
166
384
560
702
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

Method: E237 Filename: CN068384C12 Date: 11/22/85
Shift Std: CT851122C12 Time: 6:06

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	181466.	178445.	2.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	803493.	793164.	1.	Pass
*270 D5-CHLOROBENZENE (IS)	712728.	725858.	-1.	Pass

QUANTITATION REPORT FILE: CN068384C12

DATA: CN068384C12.TI
11/22/85 6:06:00
SAMPLE: 5 ML CC#68384 SS OF SAMPLE ID#G CASE#URS
CONDS.:
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROSTHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	*258 D4-1,2-DICHLORDETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	190	9:39	1	1.000	A BB	181469.	50.000 UG/L	9.04
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	127	6:27	1	0.668	A BB	6872.	1.390 UG/L	0.25
7	43	144	7:19	1	0.758	A*BB	2843.	2.787 UG/L	0.50
8	76	NOT FOUND							
9	96	186	9:27	1	0.979	A BV	272183.	52.749 UG/L	9.53
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	404	20:32	14	1.000	A BV	803494.	50.000 UG/L	9.04
15	72	252	12:49	14	0.624	A BB	2938.	5.211 UG/L	0.94
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	339	17:14	14	0.839	A BV	315968.	47.957 UG/L	8.67
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	353	17:57	14	0.874	A BV	734571.	51.016 UG/L	9.22
26	75	353	17:57	14	0.874	A BB	16777.	1.694 UG/L	0.31
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	712728.	50.000 UG/L	9.04
30	43	NOT FOUND							
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	485	24:39	29	0.960	A BB	475062.	49.791 UG/L	9.00
35	112	508	25:49	29	1.006	A BB	618500.	47.705 UG/L	8.62
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	248	12:36	1	1.305	A BB	252586.	48.039 UG/L	8.68
41	95	621	31:34	29	1.230	A BB	576126.	48.306 UG/L	8.73
42	98	481	24:27	1	2.532	A BV	790570.	46.641 UG/L	8.43

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:39	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:47		10.000			50.00		0.803	
3	2:39		10.000			50.00		1.168	
4	3:27		10.000			50.00		0.828	
5	4:19		10.000			50.00		0.478	
6	6:24	1.01	5.000	0.13	1.39	50.00	0.038	1.362	0.03
7	7:13	1.01	10.000	0.08	2.79	50.00	0.016	0.281	0.06
8	8:17		5.000			50.00		4.183	
9	9:24	1.01	5.000	0.20	52.75	50.00	1.500	1.422	1.05
10	10:34		5.000			50.00		2.385	
11	11:26		5.000			50.00		1.476	
12	11:48		5.000			50.00		2.592	
13	12:39		5.000			50.00		1.467	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	5.21	50.00	0.004	0.035	0.10
16	13:59		5.000			50.00		0.387	
17	14:23		5.000			50.00		0.361	
18	14:41		10.000			50.00		0.533	
19	14:44		5.000			50.00		0.509	
20	16:22		5.000			50.00		0.434	
21	16:37		5.000			50.00		0.219	
22	17:14	1.00	5.000	0.17	47.96	50.00	0.393	0.410	0.96
23	17:35		5.000			50.00		0.406	
24	17:47		5.000			50.00		0.368	
25	17:57	1.00	5.000	0.17	51.02	50.00	0.914	0.896	1.02
26	17:54	1.00	5.000	0.17	1.69	50.00	0.021	0.616	0.03
27	19:07		10.000			50.00		0.027	
28	20:23		5.000			50.00		0.261	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15		10.000			50.00		0.380	
31	22:56		10.000			50.00		0.247	
32	23:05		5.000			50.00		0.345	
33	22:46		5.000			50.00		0.675	
34	24:39	1.00	5.000	0.19	49.79	50.00	0.667	0.669	1.00
35	25:49	1.00	5.000	0.20	47.71	50.00	0.868	0.910	0.95
36	28:22		5.000			50.00		0.473	
37	33:51		5.000			50.00		1.034	
38	34:22		5.000			50.00		0.595	
39	35:44		5.000			100.00		0.578	
40	12:33	1.00	50.000	0.03	48.04	50.00	1.392	1.449	0.96
41	31:34	1.00	50.000	0.02	48.31	50.00	0.808	0.837	0.97
42	24:27	1.00	50.000	0.05	46.64	50.00	4.357	4.670	0.93

LAB INSTRUCTIONS.

CASE#: URS DUE DATE: 12/17/85

VOA
GC/MS WORKSHEET COMPUCHEM#: 68384

J1[ ] J3[ ] D1[ ] (1)
J2[ ] J4[ ] D2[ ] (2)

QC

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAMPLE ID: SS 291/440

GC/MS ANALYSIS
Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF8511226C12 Disk (1 2 5)
Blank Filename CB8511226C12 Disk ( )
Standard Filename CF8511226C12 Disk ( )
Sample Filename CW06838 4C12 Disk (✓)

ANALYST(S): Injection 812 Work-up 812

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes DK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,FC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VO,FC,FM

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 6

[ ] Reinject Neat

Quality Assurance Notice(s):
Notices Required 6

[ ] Dilute ( )

COMMENTS: SS of CC # 68382

GC/MS Review gp Date 11/25/85 Auditor JW Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CW06838 4C12 /

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC386 (11/84)

11/25/85

11/25/85

CompuChem # 068384 File: CN068384C12 Compound List 145 Page :
Volatile - Medium or Low Level Liquid

Cmp #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)		Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	190	181000.	50.0			
221	50		CHLOROMETHANE				BDL		10.
220	94		BROMOMETHANE				BDL		10
231	62		VINYL CHLORIDE				BDL		10.
209	64		CHLOROETHANE				BDL		10.
222	84		METHYLENE CHLORIDE			1.4	J	B	5.
252	43		ACETONE (2-PROPANONE)			2.8	J		10.
254	76		CARBON DISULFIDE				BDL		5.
216	96		1,1-DICHLOROETHYLENE			52.7	53.		5.
214	63		1,1-DICHLOROETHANE				BDL		5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL		5.
211	83		CHLOROFORM				BDL		5.
215	62		1,2-DICHLORDETHANE				BDL		5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	404	803000.	50.0			
253	72		2-BUTANONE			5.2	J		10.
227	97		1,1,1-TRICHLOROETHANE				BDL		5.
206	117		CARBON TETRACHLORIDE				BDL		5.
257	43		VINYL ACETATE				BDL		10.
212	83		BROMODICHLOROMETHANE				BDL		5.
217	63		1,2-DICHLOROPROPANE				BDL		5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL		5.
229	130		TRICHLOROETHYLENE			48.0	48.		5.
208	129		CHLORODIBROMOMETHANE				BDL		5.
228	97		1,1,2-TRICHLOROETHANE				BDL		5.
203	78		BENZENE			51.0	51.		5.
218	75		CIS-1,3-DICHLOROPROPENE			~~1.7~~	J BDL		5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL		10.
205	173		BROMOFORM				BDL		5
270	117	i	D5-CHLOROBENZENE (IS)	505	713000.	50.0			
255	43		2-HEXANONE				BDL		10.
256	43		4-METHYL-2-PENTANONE				BDL		10.
224	164		TETRACHLOROETHENE				BDL		5.
223	83		1,1,2,2-TETRACHLORDETHANE				BDL		5
225	92		TOLUENE			49.8	50.		5.
207	112		CHLOROBENZENE			47.7	48.		5.
219	106		ETHYLBENZENE				BDL		5.
251	104		STYRENE				BDL		5.
240	106		M-XYLENE				BDL		5.
271	106		O,P XYLENE				BDL		5.
258	65	s	D4-1,2-DICHLOROETHANE			48.0	96. %		
247	95	s	BROMOFLUOROBENZENE			48.3	97. %		
233	98	s	D8-TOLUENE			46.6	93. %		
Checksums:									
3515.	1399			1099	1697000.	553.2			536.

11-25-87

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLORDETHANE	48.0	50.0	96.	77-120	X	
41	247	BROMOFLUOROBENZENE	48.3	50.0	97.	85-121	X	
42	233	DB-TOLUENE	46.6	50.0	93.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ✓ ___

Correction Factor Calculation:

$$\frac{5000\ \mu l}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000\ ul}{5000.\ (ul)} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

MB 11-29-89

version 4

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
SAMPLE # E ##

Organics Analysis Data Sheet
(Page 2)

Laboratory Name: CompuChem

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 12-05-85
Date analyzed: 12-06-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

Environmental Protection Agency CLP Sample Management Office
P O Box 818 Alexandria Virginia 22313 703-557-2490

Sample Number:
SAMPLE # EMS

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	None	SV	—	ug/L
2.					
3					
4.					
5					
6					
7.					
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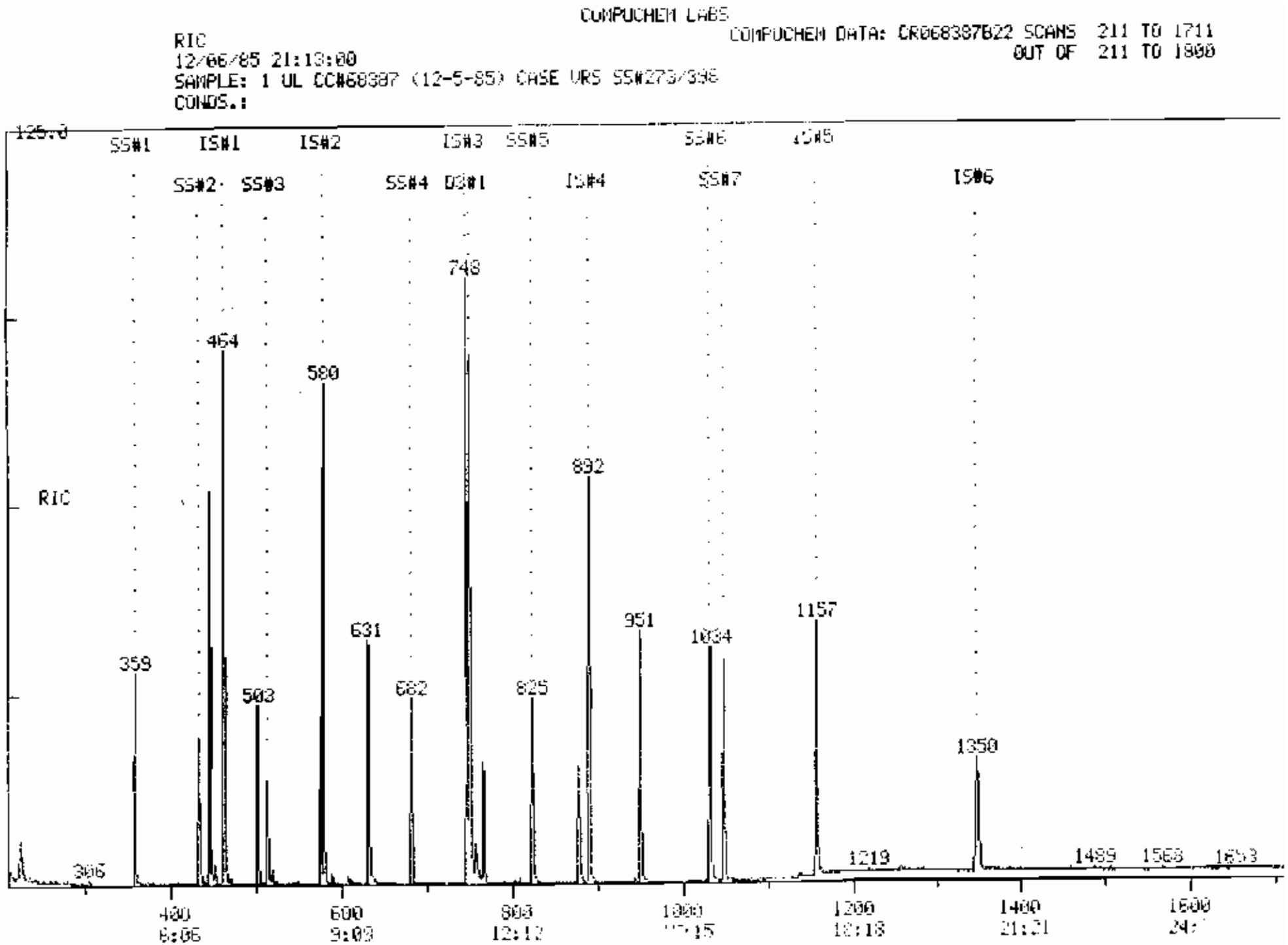
27.					
28					
29.					
30					


COMPUCHEM LABS
COMPUCHEM DATA: CR068387B22 SCANS 211 TO 1711
OUT OF 211 TO 1800
RIC
12/06/85 21:13:00
SAMPLE: 1 UL CC#68387 (12-5-85) CASE URS SS#273/398
CONDS.:
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
SS#2
SS#3
SS#4
DS#1
IS#4
SS#7
IS#6
748
464
580
892
RIC
631
951
1084
1157
359
503
682
825
1350
306
1219
1489
1563
1653
400
600
800
1000
1200
1400
1600

RIC
12/06/95 21:13:00
SAMPLE: 1 UL CC#68387 (12-5-65) CASE VRS SS#273/396
CONDS.:

COMPUCHEM DATA: GR068387B22 SCANS 1711 TO 1800
OUT OF 211 TO 1800

4025EU.

1759

1800
27:

SCAN
TIME

METHOD: SEMI3 FILENAME: GR068367B22 DATE: 12/06/85
SHIFT STD: HQB51206A22 TIME: 21:13

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	60355.	54945.	10.	PASS
*460 D8-NAPHTHALENE (IS#2)	194279.	180425.	8.	PASS
*495 D10-ACENAPHTHENE (IS#3)	101313.	83863.	21.	PASS
*467 D10-PHENANTHRENE (IS#4)	155073.	115183.	35.	PASS
*459 D12-CHRYSENE (IS#5)	96401.	80257.	20.	PASS
*497 D12-PERYLENE (IS#6)	86515.	69549.	24.	PASS

12-9-85

QUANTITATION REPORT FILE: GR068387B22

DATA: GR068387B22.TI
12/06/85 21:13:00
SAMPLE: 1 UL CC#68387 (12-5-85) CASE VRS SS#273/398
BONDS:
SUBMITTED BY: 22 ANALYST: 802

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@ 605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#625 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	464	7:05	1	1.000	A BV	60356.	40.000 NG	5.94
2	42	NOT FOUND							
3	94	436	6:39	1	0.940	A BV	30412.	10.882 NG	1.62
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	448	6:50	1	0.966	A BV	64236.	27.739 NG	4.12
7	146	NOT FOUND							
8	146	465	7:06	1	1.002	A BV	31620.	12.092 NG	1.80
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	106	NOT FOUND							
14	70	503	7:40	1	1.084	A BB	27085	13.791 NG	2.05
15	117	NOT FOUND							
16	77	NOT FOUND							
17	136	550	8.51	17	1.000	A BV	194280.	40.000 NG	5.94
18	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	NOT FOUND							
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	576	8:47	17	0.993	A BB	21364.	12.852 NG	1.91
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	631	9:37	17	1.088	A BV	59158.	34.272 NG	5.09
29	142	NOT FOUND							
30	164	748	11:25	30	1.000	A BB	101314.	40.000 NG	5.94
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	NOT FOUND							
37	152	NOT FOUND							
38	136	NOT FOUND							
39	153	751	11:27	30	1.004	A BB	54576.	16.786 NG	2.49
40	184	NOT FOUND							
41	139	758	11:34	30	1.013	A BV	7350.	13.612 NG	2.02
42	168	NOT FOUND							
43	89	787	11.42	30	1.025	A BB	18182.	17.683 NG	2.63
44	165	NOT FOUND							
45	149	NOT FOUND							
46	204	NOT FOUND							
47	166	NOT FOUND							
48	138	NOT FOUND							
49	180	891	13:35	49	1.000	A BV	155074.	40.000 NG	5.94
50	196	NOT FOUND							
51	169	NOT FOUND							
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	978	13:24	49	0.985	A BV	15472.	33.936 NG	5.04
55	178	NOT FOUND							
56	178	NOT FOUND							
57	149	951	14.30	49	1.067	A VV	109266.	18.108 NG	2.69
58	202	NOT FOUND							
59	240	1156	17:38	59	1.000	A BV	96402.	40.000 NG	5.94
60	184	1033	15:45	59	0.894	A BB	~~1184.~~	~~27.140 NG~~	~~4.03~~ ND
61	202	1034	15:46	59	0.894	A BV	96850.	23.737 NG	3.53
62	149	NOT FOUND							
63	252	NOT FOUND							
64	228	NOT FOUND							
65	149	NOT FOUND							
66	228	NOT FOUND							
67	264	1350	20:36	67	1.000	A BV	86516.	40.000 NG	5.94
68	149	NOT FOUND							
69	252	NOT FOUND							
70	252	NOT FOUND							
71	252	NOT FOUND							
72	276	NOT FOUND							
3	278	NOT FOUND							
4	276	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	389	5:29	1	0.774	A BV	43322.	24.877 NG	3.70
76	99	434	6:37	1	0.935	A BV	38184.	17.924 NG	2.66
77	82	514	7:50	17	0.886	A BV	34356.	16.434 NG	2.44
78	172	682	10:24	30	0.912	A BV	54484	15.597 NG	2.32
79	141	825	12:35	30	1.103	A BB	11198.	43.756 NG	6.50
80	244	1049	16:00	59	0.907	A BB	62862.	25.731 NG	3.82
81	212	1033	15:45	59	0.894	A BV	86870.	25.944 NG	3.86
82	216	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:04	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:41		10.000			50.00		1.088	
3	6:38	1.00	10.000	0.09	10.88	50.00	0.403	1.852	0.22
4	6:40		10.000			50.00		1.283	
5	6:45		10.000			50.00		1.550	
6	6:50	1.00	10.000	0.10	27.74	50.00	0.851	1.535	0.55
7	7:01		10.000			50.00		1.424	
8	7:06	1.00	10.000	0.10	12.09	50.00	0.419	1.733	0.24
9	7:16		10.000			50.00		0.467	
10	7:21		10.000			50.00		1.221	
11	7:27		10.000			50.00		1.091	
12	7:29		10.000			50.00		2.623	
13	7:38		10.000			50.00		1.258	
14	7:40	1.00	10.000	0.11	13.79	50.00	0.359	1.302	0.28
15	7:47		10.000			50.00		0.624	
16	7:55		10.000			50.00		1.418	
17	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:11		10.000			50.00		0.892	
19	8:19		10.000			50.00		0.203	
20	8:22		10.000			50.00		0.339	
21	8:30		50.000			50.00		0.190	
22	8:33		10.000			50.00		0.462	
23	8:39		10.000			50.00		0.286	
24	8:46	1.00	10.000	0.10	12.85	50.00	0.088	0.342	0.26
25	8:52		10.000			50.00		1.106	
26	8:57		10.000			50.00		0.161	
27	9:08		10.000			50.00		0.207	
28	9:37	1.00	10.000	0.11	34.27	50.00	0.244	0.355	0.69
29	9:51		10.000			50.00		0.639	
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:11		10.000			50.00		0.214	
32	10:17		10.000			50.00		0.387	
33	10:21		50.000			50.00		0.388	
34	10:33		10.000			50.00		1.345	
35	10:43		50.000			50.00		0.452	
36	11:02		10.000			50.00		1.439	
37	11:11		10.000			50.00		1.789	
38	11:20		50.000			50.00		0.069	
39	11:27	1.00	10.000	0.10	16.79	50.00	0.431	1.284	0.34
40	11:28		50.000			50.00		0.052	
41	11:33	1.00	50.000	0.02	13.61	50.00	0.058	0.213	0.27
42	11:41		10.000			50.00		1.604	
43	11:48	1.00	10.000	0.10	17.68	50.00	0.144	0.406	0.35
44	11:07		10.000			50.00		0.248	
45	12:04		10.000			50.00		1.552	
46	12:11		10.000			50.00		0.585	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
47	12:12		10.000			50.00		1.289	
48	12:14		50.000			50.00		0.172	
49	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:19		50.000			50.00		0.065	
51	12:21		10.000			50.00		0.459	
52	12:54		10.000			50.00		0.230	
53	13:08		10.000			50.00		0.322	
54	13:24	1.00	50.000	0.02	33.94	50.00	0.080	0.118	0.68
55	13:37		10.000			50.00		1.155	
56	13:42		10.000			50.00		1.196	
57	14:29	1.00	10.000	0.11	18.11	50.00	0.564	1.556	0.36
58	15:25		10.000			50.00		1.114	
59	17:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:44	1.00	50.000	0.02	27.14	50.00	0.010	0.018	0.54
61	15:46	1.00	10.000	0.09	23.74	50.00	0.804	1.693	0 47
62	16:46		10.000			50.00		0.757	
63	17:32		20.000			50.00		0.203	
64	17:36		10.000			50.00		1.232	
65	17:41		10.000			50.00		1.161	
66	17.40		10.000			50.00		1.174	
67	20:32	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:47		10.000			50.00		1.665	
69	19:40		10 000			100.00		1.267	
70	19:40		10 000			100.00		1.267	
71	20:23		10.000			50.00		1.189	
72	24:01		10.000			50.00		1.239	
73	24.04		10.000			50.00		1.019	
74	25:02		10.000			50.00		1.079	
75	5:26	1.00	0.742	1.04	24.88	50.00	0.574	1.154	0.50
76	6:36	1.00	0.948	0.99	17.92	50.00	0.506	1.412	0.36
77	7.50	1.00	0.875	1.01	16.43	50.00	0.141	0.430	0.33
78	10:24	1.00	0 906	1.01	15.60	50.00	0.430	1.379	0.31
79	12:34	1.00	1.118	0.99	43.76	50 00	0.088	0.101	0.88
80	15:59	1 00	0.907	1.00	25.73	50.00	0.522	1.014	0 51
81	15:44	1 00	10.000	0.09	25.94	50 00	0.721	1.389	0.52
82	10:34		1.000			50 00		0.290	

CASE#: VRS   DUE DATE: 12/17/85

SEMI-VOLATILE
GC/MS WORKSHEET   COMPUCHEM#: 6 5287R

J[ ] R[ ] D[ ] (:1)
J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

55 273/348

BAS: EPA#:

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 12/5/85
DFTPP Filename [illegible] Disk ([illegible])
Standard Filename [illegible] Disk ( )
Sample Filename [illegible] Disk ( )

ANALYST(S): Injection [illegible] Work-up ____

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes OK,EA,JA, ES,AL,AN,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,HS
ED,IF,LA,DI,CD,RH,DW,DA

Extraneous Peak Search Results:
# of Peaks Found: Ø

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Quality Assurance Notice(s):
Notices Required ____

COMMENTS: OK 20 12-8-85

GC/MS Review EA Date 12/9/85 Auditor ____ Date __/__/__

REPORT INTEGRATION   Total # of Injections: ____
Final Reportable Package(s): 6RØ65387BZZ / ____

QA COMMENTS:

Initials ____ Date __/__/__

FINAL REVIEW: Initials ____ Date __/__/__

AK 12/9/85   AK 12/9/85

EPAWATER (11/84)

COMPUCHEM # 068387 FILE: GR068387B22 COMPOUND LIST 142 PAGE 1
SEMI-VOLATILE - LIQUID

TMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	464	60400.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	20
610	94		PHENOL (Q1#3) <108-95-2>			10.9	22	20.
473	93		ANILINE (Q1#4) <62-53-3>				BDL	20
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20.
601	128		2-CHLOROPHENOL (Q1#6) <95-5			27.7	55.	20.
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	20
422	146		1,4-DICHLOROBENZENE (Q1#8)			12.1	24.	20
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20
442	70		N-NITROSO-DI-N-PROPYLAMINE			13.8	28.	20
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	20
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20
460	136	I	D8-NAPHTHALENE (IS#2)	580	194000	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	20
602	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	20.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20
96	180		1,2,4-TRICHLOROBENZENE (Q2#			12.8	26.	20
39	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	20.
424	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	20
606	107		P-CHLORO-M-CRESOL (Q2#12) <			34.3	69.	20
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	20
495	164	I	D10-ACENAPHTHENE (IS#3)	748	101000	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	20.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100.
428	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (Q3#10) <83-32			16.8	34.	20.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	100.
607	139		4-NITROPHENOL (Q3#12) <100-			13.6	J	100
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (Q3#14)			17.7	35.	20.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	20
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
435	166		FLUORENE (Q3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (Q3#19) <100				BDL	100
467	188	I	D10-PHENANTHRENE (IS#4)	891	155000.	40.0		
4	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	20
414	248		4-DROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (Q4#6) <8			33.9	J	100

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20
426	149		DI-N-BUTYL PHTHALATE (G4#9)			18.1	36.	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20
459	240	I	D12-CHRYSENE (IS#5)	1156	96400.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>			~~27.1~~	~~d~~	~~100.~~ N
445	202		PYRENE (G5#3) <129-00-0>			23.7	47.	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1350	86500.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#6)				BDL	20
619	112	S	2-FLUOROPHENOL (SS#1)			24.9	50. %	
612	99	S	D5-PHENOL (SS#2)			17.9	36. %	
447	82	S	D5-NITROBENZENE (SS#3)			16.4	66. %	
448	172	S	2-FLUOROBIPHENYL (SS#4)			15.6	62. %	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			43.8	88 %	
496	244	S	D14-TERPHENYL (SS#6)			25.7	103. %	
471	212	S	D10-PYRENE			25.9	104. %	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	2
CHECKSUMS:								
13041	4113			5189	693300.	672.7	885.	

12-9-93

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	T
75	619	2-FLUOROPHENOL (SS#1)	24.9	50.0	50.	23-121	X	
76	612	D5-PHENOL (SS#2)	17.9	50.0	36.	15-103	X	
77	447	D5-NITROBENZENE (SS#3)	16.4	25.0	66.	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	15.6	25.0	62.	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	43.5	50.0	88.	10-130	X	
80	496	D14-TERPHENYL (SS#6)	25.7	25.0	103.	33-128	X	
81	471	D10-PYRENE	25.9	25.0	104.	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{0.5\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1000\ \text{ML}}{500.\ \text{ML}} \times \frac{1.0}{} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{500\ \text{UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{500\ \text{UL}}{250\ \text{UL}} \times \frac{0.5\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1.0}{} \times 2 = 2.000$$

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Cyril & Yvette

DATE ASSIGNED 12/5/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
67657K	-56	5195	BD595			1000ml		1ml	1ml		13	1	12/5	
67632K		5195	BD451			1000ml		1ml	1ml		13	1	12/5	
68388K		UKS		55	68381	500ml		0.5ml	0.5ml		13	1	12/5	2-7-86 use 68381 (E) Added 50.0ml of Extract diluted to 500ml Zero used as Surrogate.
68387K		UKS		55	68381	500ml		0.5ml	0.5ml		13	1	12/5	
67887K		5195	BD473			1000ml		1ml	1ml		13	1	12/5	
67850K		5195	BD729			1000ml		1ml	1ml		13	1	12/5	
69771				B1		1000ml		1ml	1ml		13	1	12/5	
69772	↓			B2		1000ml		1ml	1ml		13	1	12/5	

		B-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	16181					
SPIKE	NO		3012	2021			
	AMT.		0.250ml	0.250ml			
	LOT		16166	16226			

MANUAL COUNTER 292/693

FINAL VOLUME VERIFIED OK

SUPERVISOR REVIEWED OK

EXTRACTS RECEIVED BY 12/5/85

№ 7861

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
SAMPLE 1 & MSD

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 68385
Sample matrix: liquid
Date Release

Case: UKS
GC Report No: _____
Contract No: PLATINUM
Date Sample

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
SAMPLE # 6 MST

Organics Analysis Data Sheet
[Page 1]

Laboratory Name: ComputChem
Lab Sample ID No: 66385
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS
GC Report No: _____
Contract No: PLATINUM
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared: 11-22-85
Date analyzed: 11-22-85
Conc/Dil Factor: 1.00 pH:
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	2.9	J	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	1.9	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	4.9	J	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

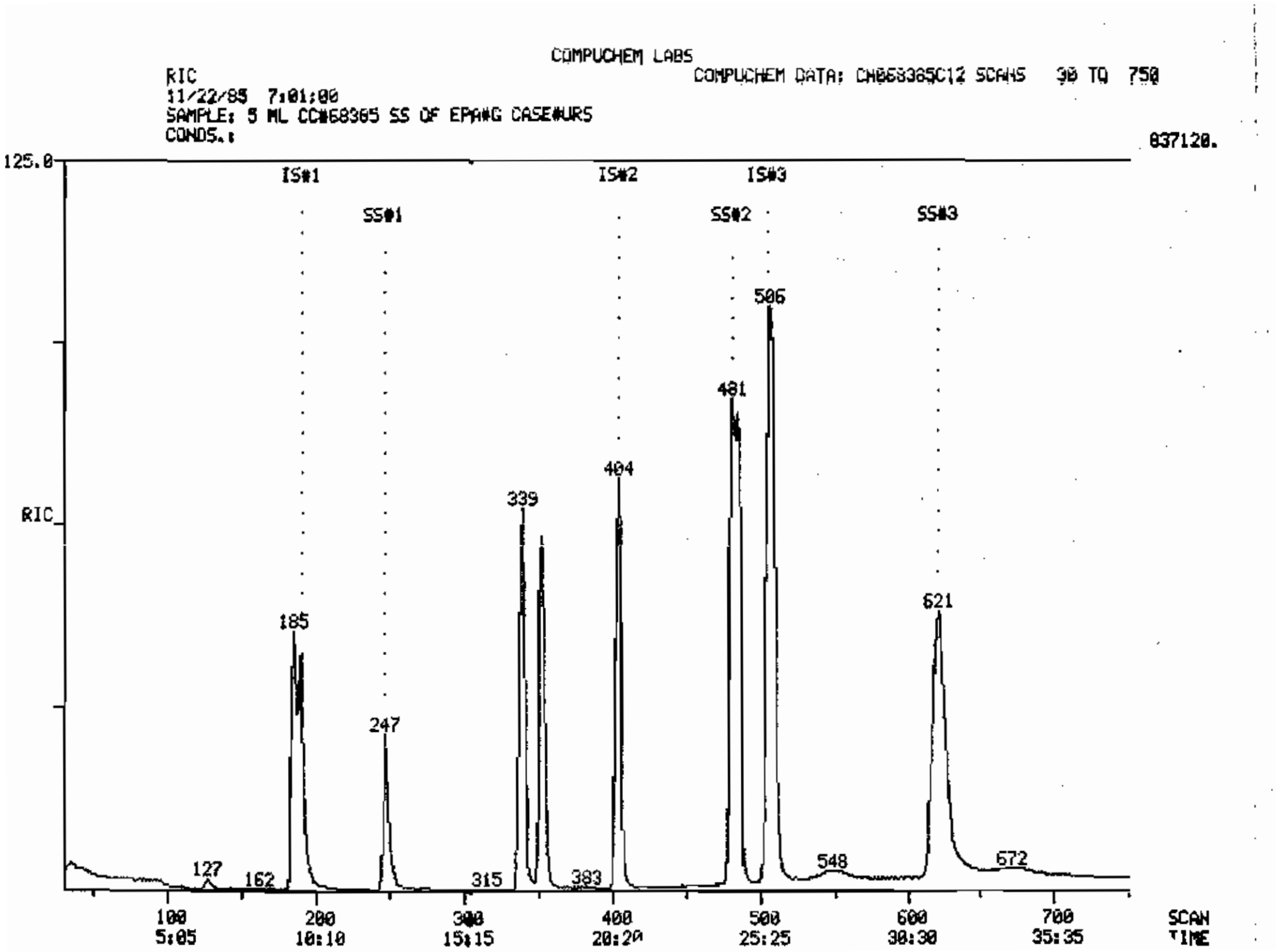
... CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
SAMPLE #6 MSD

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NONE	VOA	—	ug/l
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN068385C12 SCANS 30 TO 750
11/22/85 7:01:00
SAMPLE: 5 ML CC#68385 SS OF EPA#G CASE#UR5
CONDS.:
837120.
125.0
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
506
481
404
339
185
247
621
127
162
315
383
548
672
RIC
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
TIME

Method: E237 Filename: CN068385C12 Date: 11/22/85
Shift Std: CT851122C12 Time: 7:01

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*234 BROMOCHLOROMETHANE (IS)	175848.	178445.	-0.	Pass
*248 1,4 DIFLUOROBENZENE (IS)	794465.	793164.	0.	Pass
*270 D5-CHLOROBENZENE (IS)	701023.	725858.	-2.	Pass

DATA: CN068385C12.TI
11/22/85 7:01:00
SAMPLE: 5 ML CC#68385 SS OF EPA#C CASE#URS
CONDS.:
SUBMITTED BY: 12 ANALYST: 812

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	*248 1,4 DIFLUOROBENZENE (IS)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	*270 D5-CHLOROBENZENE (IS)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	240 M-XYLENE
39	271 O,P XYLENE
40	*258 D4-1,2-DICHLOROETHANE
41	*247 BROMOFLUOROBENZENE
42	*233 D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	190	9:39	1	1.000	A BB	175848.	50.000 UG/L	8.85
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	127	6:27	1	0.668	A BB	13744.	2.869 UG/L	0.51
7	43	143	7:16	1	0.753	A BV	1917.	1.939 UG/L	0.34
8	76	NOT FOUND							
9	96	185	9:24	1	0.974	A BV	271052.	54.209 UG/L	9.60
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	404	20:32	14	1.000	A BB	794466.	50.000 UG/L	8.85
15	72	251	12:46	14	0.621	A BB	2733.	4.902 UG/L	0.87
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	339	17:14	14	0.839	A BB	319779.	49.087 UG/L	8.69
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	352	17:54	14	0.871	A BB	748380.	52.565 UG/L	9.31
26	75	352	17:54	14	0.871	A BB	16863.	1.722 UG/L	0.30
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	701024.	50.000 UG/L	8.85
30	43	NOT FOUND							
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	485	24:39	29	0.960	A BV	482877.	51.455 UG/L	9.11
35	112	508	25:49	29	1.006	A BB	638637.	50.081 UG/L	8.87
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	247	12:33	1	1.300	A BB	251291.	49.320 UG/L	8.73
41	95	621	31:34	29	1.230	A BB	566817.	48.319 UG/L	8.56
42	98	480	24:24	1	2.526	A BV	792843.	48.270 UG/L	8.55

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:39	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:47		10.000			50.00		0.803	
3	2:39		10.000			50.00		1.168	
4	3:27		10.000			50.00		0.828	
5	4:19		10.000			50.00		0.478	
6	6:24	1.01	5.000	0.13	2.87	50.00	0.078	1.362	0.06
7	7:13	1.01	10.000	0.08	1.94	50.00	0.011	0.281	0.04
8	8:17		5.000			50.00		4.183	
9	9:24	1.00	5.000	0.19	54.21	50.00	1.541	1.422	1.08
10	10:34		5.000			50.00		2.385	
11	11:26		5.000			50.00		1.476	
12	11:48		5.000			50.00		2.592	
13	12:39		5.000			50.00		1.467	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:46	1.00	10.000	0.06	4.90	50.00	0.003	0.035	0.10
16	13:59		5.000			50.00		0.387	
17	14:23		5.000			50.00		0.361	
18	14:41		10.000			50.00		0.533	
19	14:44		5.000			50.00		0.509	
20	16:22		5.000			50.00		0.434	
21	16:37		5.000			50.00		0.219	
22	17:14	1.00	5.000	0.17	49.09	50.00	0.403	0.410	0.98
23	17:35		5.000			50.00		0.406	
24	17:47		5.000			50.00		0.368	
25	17:57	1.00	5.000	0.17	52.57	50.00	0.942	0.896	1.05
26	17:54	1.00	5.000	0.17	1.72	50.00	0.021	0.616	0.03
27	19:07		10.000			50.00		0.027	
28	20:23		5.000			50.00		0.261	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:15		10.000			50.00		0.380	
31	22:56		10.000			50.00		0.247	
32	23:05		5.000			50.00		0.345	
33	22:46		5.000			50.00		0.675	
34	24:39	1.00	5.000	0.19	51.46	50.00	0.689	0.669	1.03
35	25:49	1.00	5.000	0.20	50.08	50.00	0.911	0.910	1.00
36	28:22		5.000			50.00		0.473	
37	33:51		5.000			50.00		1.034	
38	34:22		5.000			50.00		0.595	
39	35:44		5.000			100.00		0.578	
40	12:33	1.00	50.000	0.03	49.32	50.00	1.429	1.449	0.99
41	31:34	1.00	50.000	0.02	48.32	50.00	0.809	0.837	0.97
42	24:27	1.00	50.000	0.05	48.27	50.00	4.509	4.670	0.97

LAB INSTRUCTIONS:

CASE#: URS DUE DATE: 12/17/85

VOA J1[ ] J3[ ] D1[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 68385 J2[ ] J4[ ] D2[ ] (:1)

QC

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---030

SAMPLE ID: SS 281/490

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB5112212 Disk(25)
Blank Filename CB85112212 Disk ( )
Standard Filename CT85112212 Disk ( )
Sample Filename CN068385C12 Disk ( )

ANALYST(S): Injection 812 Work-up 812

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UF,BB,OT,VC,FC,SM

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reinject Neat

Quality Assurance Notice(s):
Notices Required 0

[ ] Dilute (:1)

COMMENTS:

GC/MS Review MB Date 11/25/85 Auditor [illegible] Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN068385C12/_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC386 (11/84)

BE 11/25/85

AC 11/22/85

Volatile - Medium or Low Level Liquid

Cmp #	m/e	F	Compound Name	Scan	Area	Quant Report Value	Reported Amount (ug/l)		Detect. Limit (ug/l)
234	128	i	BROMOCHLOROMETHANE (IS)	190	176000.	50.0			
221	50		CHLOROMETHANE				BDL		10.
220	94		BROMOMETHANE				BDL		10.
231	62		VINYL CHLORIDE				BDL		10.
209	64		CHLOROETHANE				BDL		10.
222	84		METHYLENE CHLORIDE			2.9	J	B	5.
252	43		ACETONE (2-PROPANONE)			1.9	J		10.
254	76		CARBON DISULFIDE				BDL		5.
216	96		1,1-DICHLOROETHYLENE			54.2	54.		5.
214	63		1,1-DICHLOROETHANE				BDL		5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL		5.
211	83		CHLOROFORM				BDL		5.
215	62		1,2-DICHLOROETHANE				BDL		5.
248	114	i	1,4 DIFLUOROBENZENE (IS)	404	794000.	50.0			
253	72		2-BUTANONE			4.9	J		10.
227	97		1,1,1-TRICHLOROETHANE				BDL		5.
206	117		CARBON TETRACHLORIDE				BDL		5.
257	43		VINYL ACETATE				BDL		10.
212	83		BROMODICHLOROMETHANE				BDL		5.
217	63		1,2-DICHLOROPROPANE				BDL		5.
250	75		TRANS-1,3-DICHLOROPROPENE				BDL		5.
229	130		TRICHLOROETHYLENE			49.1	49.		5.
208	129		CHLORODIBROMOMETHANE				BDL		5.
228	97		1,1,2-TRICHLOROETHANE				BDL		5.
203	78		BENZENE			52.6	53.		5.
218	75		CIS-1,3-DICHLOROPROPENE			~~4.7~~	J BCL		5.
210	63		2-CHLOROETHYL VINYL ETHER				BDL		10.
205	173		BROMOFORM				BDL		5.
270	117	i	D5-CHLOROBENZENE (IS)	505	701000.	50.0			
255	43		2-HEXANONE				BDL		10.
256	43		4-METHYL-2-PENTANONE				BDL		10.
224	164		TETRACHLOROETHENE				BDL		5.
223	83		1,1,2,2-TETRACHLOROETHANE				BDL		5.
225	92		TOLUENE			51.4	51.		5.
207	112		CHLOROBENZENE			50.1	50.		5.
219	106		ETHYLBENZENE				BDL		5.
251	104		STYRENE				BDL		5.
240	106		M-XYLENE				BDL		5.
271	106		O,P XYLENE				BDL		5.
258	65	s	D4-1,2-DICHLOROETHANE			49.3	99. %		
247	95	s	BROMOFLUOROBENZENE			48.3	97. %		
233	98	s	D8-TOLUENE			48.3	96. %		
Checksums:									
3515.	1399			1099	1671000.	564.7		549.	

MB 11-25-87

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	258	D4-1,2-DICHLOROETHANE	49.3	50.0	99.	77-120	X	
41	247	BROMOFLUOROBENZENE	48.3	50.0	97.	85-121	X	
42	233	D8-TOLUENE	48.3	50.0	96.	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	✓	

Correction Factor Calculation:

$$\frac{5000 \text{ ul}}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000 \text{ ul}}{5000. \text{ (ul)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Burrogate spike conversion factor = 1.

gjb 11-25-85

version 4

Organics Analysis Data Sheet
(Page 2)

Laboratory Name: CompuChem

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 12-05-85
Date analyzed: 12-06-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	2.0	J
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

Environmental Protection Agency · CLP Sample Management Office
P O Box 818 · Alexandria Virginia 22313 703/557-2490

Sample Number:
SAMPLE# EMSD

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	None	SV	—	49L
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
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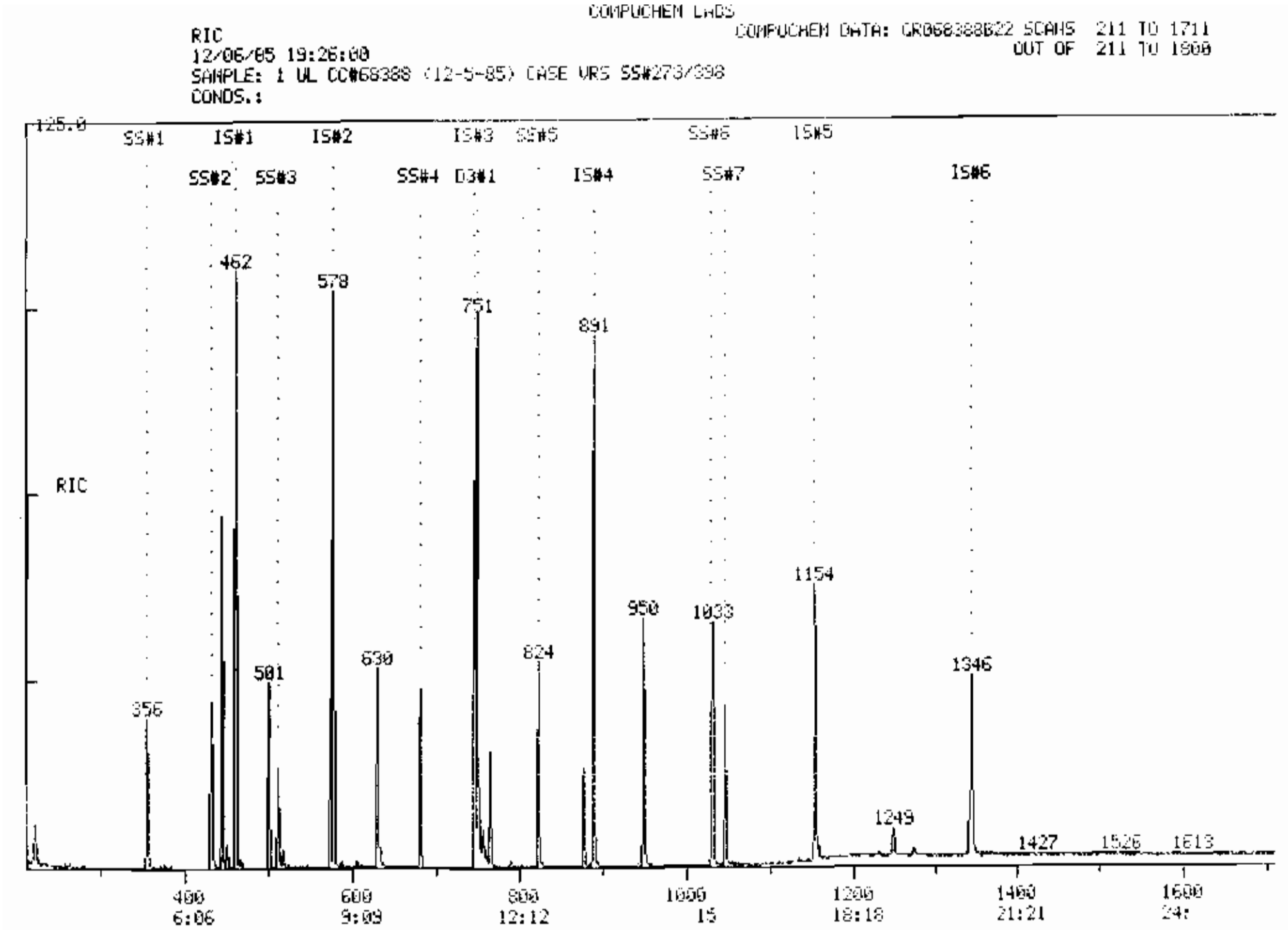
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
COMPUCHEM DATA: GR068388822 SCANS 211 TO 1711
OUT OF 211 TO 1900
RIC
12/06/85 19:26:00
SAMPLE: 1 UL CC#68388 (12-5-85) CASE VRS SS#273/398
CONDS.:
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
462
578
751
891
1154
950
1033
630
824
501
1346
356
1249
1427
1526
1613
RIC
400
6:06
600
9:09
800
12:12
1000
15
1200
18:18
1400
21:21
1600
24:

COMPUCHEM LABS

RIC
12/06/85 19:26:00
SAMPLE: 1 UL CC#68383 (12-5-85) CASE URS SS#273/398
CONDS.:

COMPUCHEM DATA: GR068388822 SCANS 1711 TO 1800
OUT OF 211 TO 1800

350000.

1800
27:27

SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI3 FILENAME: GR068388B22 DATE: 12/06/85
SHIFT STD. HG851206A22 TIME: 19:26

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	55925.	54945.	2.	PASS
*460 D8-NAPHTHALENE (IS#2)	171371.	180425.	-4.	PASS
*495 D10-ACENAPHTHENE (IS#3)	91623.	83863.	9.	PASS
*467 D10-PHENANTHRENE (IS#4)	136833.	115183.	19.	PASS
*459 D12-CHRYSENE (IS#5)	79035.	80257.	-1.	PASS
*497 D12-PERYLENE (IS#6)	79621.	69549.	14.	PASS

12-9-85

DATA: GR068388B22.TI
12/06/85 19:26:00
SAMPLE: 1 UL CC#68388 (12-5-85) CASE VRS SS#273/398
CONDS.:
SUBMITTED BY: 22 ANALYST: 802

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (Q1#2) <62-75-9>
3	610 PHENOL (Q1#3) <108-95-2>
4	473 ANILINE (Q1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
6	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
9	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
11	620 2-METHYLPHENOL (Q1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
13	622 4-METHYLPHENOL (Q1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
15	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
16	440 NITROBENZENE (Q1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (Q2#2) <78-59-1>
19	606 2-NITROPHENOL (Q2#3) <88-75-5>
20	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
21	625 BENZOIC ACID (Q2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
25	439 NAPHTHALENE (Q2#9) <91-20-3>
26	475 4-CHLOROANILINE (Q2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
35	478 2-NITROANILINE (Q3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
37	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
38	479 3-NITROANILINE (Q3#9) <99-09-2>
39	401 ACENAPHTHENE (Q3#10) <83-32-9>
40	@ 605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
41	607 4-NITROPHENOL (Q3#12) <100-02-7>
42	476 DIBENZOFURAN (Q3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
45	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	#497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#6)
81	#471 D10-PYRENE
82	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	462	7:03	1	1.000	A BB	55926.	40.000 NG	6.43
2	42	NOT FOUND							
3	94	433	6:36	1	0.937	A BV	20092.	7.759 NG	1.25
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	446	6:48	1	0.965	A*BV	51776.	24.130 NG	3.88
7	146	463	7:04	1	1.002	A BV	~~80176.~~	~~15.161~~ NG	~~2.44~~ NO
8	146	463	7:04	1	1.002	A BV	30176.	12.454 NG	2.00
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	108	NOT FOUND							
14	70	501	7:39	1	1.084	A BV	24306.	13.355 NG	2.15
15	117	NOT FOUND							
16	77	NOT FOUND							
17	136	578	8:49	17	1.000	A BV	171372.	40.000 NG	6.43
18	82	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
19	139	NOT FOUND							
20	122	NOT FOUND							
21	122	NOT FOUND							
22	93	NOT FOUND							
23	162	NOT FOUND							
24	180	574	8:45	17	0.993	A BV	23788.	16.224 NG	2.61
25	128	NOT FOUND							
26	127	NOT FOUND							
27	225	NOT FOUND							
28	107	630	9:37	17	1.090	A BV	46594.	30.602 NG	4.92
29	142	NOT FOUND							
30	164	747	11:24	30	1.000	A BB	91624.	40.000 NG	6.43
31	237	NOT FOUND							
32	196	NOT FOUND							
33	196	NOT FOUND							
34	162	NOT FOUND							
35	65	NOT FOUND							
36	163	NOT FOUND							
37	152	NOT FOUND							
38	138	NOT FOUND							
39	153	750	11:26	30	1.004	A BB	50968.	17.334 NG	2.79
40	184	NOT FOUND							
41	139	757	11:33	30	1.013	A BV	5428.	11.116 NG	1.79
42	168	NOT FOUND							
43	89	767	11:42	30	1.027	A BB	13024.	14.006 NG	2.25
44	165	NOT FOUND							
45	149	NOT FOUND							
46	204	NOT FOUND							
47	166	NOT FOUND							
48	138	NOT FOUND							
49	188	891	13:35	49	1.000	A BB	136834.	40.000 NG	6.43
50	198	NOT FOUND							
51	169	NOT FOUND							
52	248	NOT FOUND							
53	284	NOT FOUND							
54	266	877	13:23	49	0.984	A BV	10534.	26.185 NG	4.21
55	178	NOT FOUND							
56	178	NOT FOUND							
57	149	950	14:29	49	1.066	A VV	97814.	18.371 NG	2.95
58	202	NOT FOUND							
59	240	1154	17:36	59	1.000	A BV	79036.	40.000 NG	6.43
60	184	NOT FOUND							
61	202	1033	15:45	59	0.895	A BV	75014.	22.425 NG	3.61
62	149	NOT FOUND							
63	252	NOT FOUND							
64	228	NOT FOUND							
65	149	1158	17:40	59	1.003	A*BB	3026.	1.319 NG	0.21
66	228	NOT FOUND							
67	264	1346	20:32	67	1.000	A BV	79622.	40.000 NG	6.43
68	149	NOT FOUND							
69	252	NOT FOUND							
70	252	NOT FOUND							
71	252	NOT FOUND							
72	276	NOT FOUND							
73	276	NOT FOUND							
74	276	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
75	112	356	5:26	1	0.771	A BV	31774.	19.691 NG	3.17
76	99	432	6:35	1	0.935	A BV	32394.	16.410 NG	2.64
77	82	513	7:50	17	0.888	A BB	28004.	15.186 NG	2.44
78	172	662	10:24	30	0.913	A BV	47746.	15.114 NG	2.42
79	141	824	12:34	30	1.103	A BB	9004.	38.904 NG	6.26
80	244	1048	15:59	59	0.908	A BV	46502.	23.217 NG	3.73
81	212	1031	15:44	59	0.893	A BV	63180.	23.015 NG	3.70
82	216	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:04	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:41		10.000			50.00		1.088	
3	6:38	1.00	10.000	0.09	7.76	50.00	0.287	1.852	0.16
4	6:40		10.000			50.00		1.283	
5	6:45		10.000			50.00		1.550	
6	6:50	1.00	10.000	0.10	24.13	50.00	0.741	1.535	0.46
7	7:01	1.01	10.000	0.10	15.16	50.00	0.432	1.424	0.30
8	7:06	1.00	10.000	0.10	12.45	50.00	0.432	1.733	0.25
9	7:16		10.000			50.00		0.467	
10	7:21		10.000			50.00		1.221	
11	7:27		10.000			50.00		1.091	
12	7:29		10.000			50.00		2.623	
13	7:38		10.000			50.00		1.258	
14	7:40	1.00	10.000	0.11	13.36	50.00	0.348	1.302	0.27
15	7:47		10.000			50.00		0.624	
16	7:52		10.000			50.00		1.418	
17	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:11		10.000			50.00		0.892	
19	8:19		10.000			50.00		0.203	
20	8:22		10.000			50.00		0.339	
21	8:30		50.000			50.00		0.190	
22	8:30		10.000			50.00		0.462	
23	8:39		10.000			50.00		0.288	
24	8:46	1.00	10.000	0.10	16.22	50.00	0.111	0.342	0.32
25	8:52		10.000			50.00		1.106	
26	8:57		10.000			50.00		0.161	
27	9:08		10.000			50.00		0.207	
28	9:37	1.00	10.000	0.11	30.60	50.00	0.218	0.355	0.61
29	9:51		10.000			50.00		0.639	
30	11:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:11		10.000			50.00		0.214	
32	10:17		10.000			50.00		0.387	
33	10:21		50.000			50.00		0.388	
34	10:33		10.000			50.00		1.345	
35	10:43		50.000			50.00		0.452	
36	11:02		10.000			50.00		1.439	
37	11:11		10.000			50.00		1.789	
38	11:20		50.000			50.00		0.069	
39	11:27	1.00	10.000	0.10	17.33	50.00	0.445	1.284	0.35
40	11:28		50.000			50.00		0.052	
41	11:33	1.00	50.000	0.02	11.12	50.00	0.047	0.213	0.22
42	11:41		10.000			50.00		1.604	
43	11:48	1.00	10.000	0.10	14.01	50.00	0.114	0.406	0.28
44	11:07		10.000			50.00		0.248	
45	12:04		10.000			50.00		1.552	
46	12:11		10.000			50.00		0.585	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
47	12:12		10.000			50.00		1.289	
48	12:14		50.000			50.00		0.172	
49	13:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:19		50.000			50.00		0.065	
51	12:21		10.000			50.00		0.459	
52	12:54		10.000			50.00		0.230	
53	13:08		10.000			50.00		0.322	
54	13:24	1.00	50.000	0.02	26.19	50.00	0.062	0.118	0.52
55	13:37		10.000			50.00		1.155	
56	13:42		10.000			50.00		1.196	
57	14:29	1.00	10.000	0.11	18.37	50.00	0.572	1.556	0.37
58	15:25		10.000			50.00		1.114	
59	17:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:44		50.000			50.00		0.018	
61	15:46	1.00	10.000	0.09	22.42	50.00	0.759	1.693	0.45
62	16:46		10.000			50.00		0.757	
63	17:32		20.000			50.00		0.203	
64	17:36		10.000			50.00		1.232	
65	17:41	1.00	10.000	0.10	1.32	50.00	0.031	1.161	0.03
66	17:49		10.000			50.00		1.174	
67	20:32	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:47		10.000			50.00		1.665	
69	19:40		10.000			100.00		1.267	
70	19:40		10.000			100.00		1.267	
71	20:23		10.000			50.00		1.189	
72	24:01		10 000			50.00		1.239	
73	24:04		10.000			50.00		1.019	
74	26:02		10.000			50.00		1.079	
75	5:26	0.99	0.742	1.04	19.69	50.00	0.455	1.154	0.39
76	6:36	0.99	0.948	0.99	16.41	50.00	0.463	1.412	0.33
77	7:50	1.00	0.875	1.01	15.19	50.00	0.131	0.430	0.30
78	10:24	1.00	0.906	1.01	15.11	50.00	0.417	1.379	0.30
79	12:34	1.00	1.118	0.99	38.90	50.00	0.079	0.101	0.78
80	15:59	1.00	0.907	1.00	23.22	50.00	0.471	1.014	0.46
81	15:49	1.00	10.000	0.09	23.01	50.00	0.639	1.389	0.46
82	10:34		1.000			50.00		0.290	

12/17/85

CASE#: URS DUE DATE:

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 6538FR

J1[ ] R1[ ] D1[ ] (:1)
J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deltverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SS 273/398

SAS: EPA#:

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 12/5/85
DFTPP Filename DFB205.R?2 Disk (2+1)
Standard Filename [illegible] Disk ( )
Sample Filename [illegible] Disk ( )

ANALYST(S): Injection [illegible] Work-up [illegible]

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IN,SW,CT,CS,PC,OT,MS
ED,IF,LA,DI,CO,RH,DW,DA

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reinjection required

[ ] Reextraction required

Quality Assurance Notice(s):
Notices Required

[ ] Dilute (:1)

COMMENTS: OK 20 12-8-85

[ ] Reinject Neat

[ ] Send to QA

GC/MS Review [illegible] Date 12/9/85 Auditor Date / /

REPORT INTEGRATION Total # of Injections:
Final Reportable Package(s): [illegible]

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

12/9/85 12/9/85

EPAWATER (11/84)

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	462	55900.	40.0		
441	42		N-NITROSODIMETHYLAMINE (Q1#				BDL	20
610	94		PHENOL (Q1#3) <108-95-2>			7.8	J	20
473	93		ANILINE (Q1#4) <62-53-3>				BDL	20
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20
601	128		2-CHLOROPHENOL (Q1#6) <95-5			24.1	48.	20
421	146		1,3-DICHLOROBENZENE (Q1#7)			~~15.2~~	~~30.~~	~~20~~
422	146		1,4-DICHLOROBENZENE (Q1#8)			12.4	25.	20
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20
442	70		N-NITROSO-DI-N-PROPYLAMINE			13.4	27.	20
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	20.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20
460	136	I	D8-NAPHTHALENE (IS#2)	576	171000.	40.0		
439	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	20.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20.
446	180		1,2,4-TRICHLOROBENZENE (Q2#			16.2	32.	20.
39	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	20
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	20
608	107		P-CHLORO-M-CRESOL (Q2#12) <			30.6	61.	20
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	747	91600.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	20
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (Q3#10) <83-32			17.3	35.	20
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	100.
607	139		4-NITROPHENOL (Q3#12) <100-			11.1	J	100
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20
427	89		2,4-DINITROTOLUENE (Q3#14)			14.0	28.	20.
429	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	20
480	138		4-NITROANILINE (Q3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	891	137000.	40.0		
94	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
43	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	20
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (Q4#6) <8			26.2	J	100.

TME	M/E	P	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20.
426	149		DI-N-BUTYL PHTHALATE (G4#9)			18.4	37.	20
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20
459	240	I	D12-CHRYSENE (IS#5)	1154	79000.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>				BDL	100.
445	202		PYRENE (G5#3) <129-00-0>			22.4	45.	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			1.3	J	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1346	79600.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20
619	112	S	2-FLUOROPHENOL (SS#1)			19.7	39 %	
518	99	S	D5-PHENOL (SS#2)			16.4	33 %	
447	82	S	D5-NITROBENZENE (SS#3)			15.2	61 %	
445	172	S	2-FLUOROBIPHENYL (SS#4)			15.1	60 %	
3	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			38.9	78 %	
496	244	S	D14-TERPHENYL (SS#6)			23.2	93 %	
471	212	S	D10-PYRENE			23.0	92 %	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	2
CHECKSUMS:								
13471.	4284			5178	614100	621.9	624.	

PM 12-9-87

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	19.7	50.0	39.	23-121	X	
76	612	D5-PHENOL (SS#2)	16.4	50.0	33.	15-103	X	
77	447	D5-NITROBENZENE (SS#3)	15.2	25.0	61.	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	15.1	25.0	60.	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	38.9	50.0	78.	10-130	X	
80	496	D14-TERPHENYL (SS#6)	23.2	25.0	93.	33-128	X	
81	471	D10-PYRENE	23.0	25.0	92.	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{0.5\text{ML}}{1.0\text{ML \& 1.0ML}} \times \frac{1000.\text{ML}}{500.\text{ML}} \times \frac{1.0}{\text{DILUTION FACTOR}} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{500\ \text{UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{500\ \text{UL}}{250\ \text{UL}} \times \frac{0.5\text{ML}}{1.0\text{ML \& 1.0ML}} \times \frac{1.0}{\text{DILUTION FACTOR}} \times 2 = 2.000$$

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Cyril & Jackie

DATE ASSIGNED 12/5/85

PAGE _____ OF _____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
67657R	-SC	5785	BD595			1000ml		1ml	1ml		13	1	12/5	
67632R		5795	BD451			1000ml		1ml	1ml		13	1	12/5	
68388R		UKS		SS	68381	500ml		0.5ml	0.5ml		13	1	12/5	27548 Lee 8581 (E) Added 50.0ml of Fisher H2O to 500ml Sample used 0.5ml surrogate.
68387R		UKS		SS	68381	500ml		0.5ml	0.5ml		13	1	12/5	
67887R		5795	BD473			1000ml		1ml	1ml		13	1	12/5	
C7850R		5795	BD729			1000ml		1ml	1ml		13	1	12/5	
69771				BS		1000ml		1ml	1ml		13	1	12/5	
69772				BS		1000ml		1ml	1ml		13	1	12/5	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	16181					
SPIKE	NO.		3012	2021			
	AMT.		0.25ml	0.25ml			
	LOT		16165	16226			

MANUAL COUNTER 272/693

FINAL VOLUME VERIFIED

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 12/5/85

№ 7861

Case No. URS WEST Contractor CompuChem Laboratories Contract No. Platinum

Low XXX Medium

	[Volatile]				[Semi-Volatile]						[Pesticide]
SMO Traffic No.	Toluene D8 (88-110)	BFB (96-115)	1,2 Dichloro Ethane-D4 (76-114)	Nitro Benzene-D5 (35-114)	2-Fluoro Biphenyl (43-116)	Terphenyl D14- (33-141)	D10-Pyrene (Lab Optional)	Phenol-D5 (10-94)	2-Fluoro-Phenol (21-100)	2,4,6,Tribromo Phenol (10-123)	Dibutyl Chlorendate (24-154)**
A,A(QC)-MS	102	101	90	MR	MR	MR	MR	MR	MR	MR	MR
A,A(QC)-MSD	98	98	88	MR	MR	MR	MR	MR	MR	MR	MR
D -MS	MR	MR	MR	99	50	87	87	28	38	75	MR
D -MSD	MR	MR	MR	96	50	58	64	31	44	87	MR
85040-B	MR	MR	MR	63	66	84	78	36	54	94	MR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of ; outside of QC limits
Semi-Volatile 0 out of 18; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (water)

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. URS West **Contractor** COMPUCHEM **Contract No.** PLATINUM

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. A,A(QC)	1,1-Dichloroethene	50	0	48.3	97	47.2	94	2	14	61-145
	Trichloroethene	50	0	52.2	104	51.4	103	1	14	71-120
	Chlorobenzene	50	0	54.6	109	54.0	108	1	13	75-130
	Toluene	50	0	52.5	105	50.9	102	3	13	76-125
	Benzene	50	0	52.5	105	50.5	101	3	11	76-127
B/N SMO SAMPLE NO. B	1,2,4-Trichlorobenzene	100	0	46.8	47	43.3	43	9	28	39-98
	Acenaphthene	100	0	50.9	51	44.8	45	13	31	46-118
	2,4 Dinitrotoluene	100	0	61.5	62	38.0	38	48*	38	24-96
	Pyrene	100	0	91.9	92	65.2	65	34*	31	26-127
	N-Nitroso-Di-n-Propylamine	100	0	41.0	41	45.2	45	9	38	41-116
	1,4-Dichlorobenzene	100	0	46.2	46	41.9	42	9	28	36-97
ACID SMO SAMPLE NO. B	Pentachlorophenol	200	0	77.7	39	170	85	74*	50	9-103
	Phenol	200	0	44.0	22	61.1	30	32	42	12-89
	2-Chlorophenol	200	0	110	55	152	75	31	40	27-123
	4-Chloro-3-Methylphenol	200	0	89.7	45	179	90	67*	42	23-97
	4-Nitrophenol	200	0	47.2	24	83.6	42	55*	50	10-80
PEST SMO SAMPLE NO.	Lindane								15	56-123
	Heptachlor								20	40-131
	Aldrin								22	40-120
	Dieldrin								18	52-126
	Endrin								21	56-121
	4,4'-DDT								27	38-127

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5 ; outside QC limits
B/N 2 out of 12 ; outside QC limits
ACID 1 out of 6 ; outside QC limits
PEST ___ out of ___ ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/N 0 out of 12 ; outside QC limits
ACID 1 out of 10 ; outside QC limits
PEST ___ out of ___ ; outside QC limits

Comments: ___

WATER SURROGATI PIRCINT RECOVERY SUMMARY

Case No. URS WEST Contractor CompuChem Laboratories Contract No. Platinum

Low HHH Medium

	[Volatile]			[Semi-Volatile]							[Pesticide]
SMO Traffic No.	Toluene D8 (88-110)	BFB (86-115)	1,2 Dichloro Ethane-D4 (76-119)	Nitro Benzene-D5 (35-114)	2-Fluoro Biphenyl (43-116)	Terphenyl D14- (33-141)	D10-Pyrene (Lab Optional)	Phenol-D5 (10-94)	2-Fluoro- Phenol (21-100)	2,4,6,Tribrome Phenol (10-123)	Dibutyl Chlorendate (24-154)**
A,A(QC)	98	95	87	51	67	59	63	24	35	57	NR
C	102	96	84	48	62	55	65	25	34	64	NR
D	103	95	86	51	62	66	72	31	47	66	NR
E	106	99	89	54	61	61	63	24	34	51	NR
F	102	96	85	50	68	58	64	26	37	62	NR
G	101	99	84	57	75	80	88	29	44	69	NR

*VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 18; outside of QC limits
Semi-Volatile 0 out of 36; outside of QC limits
Pesticides: 0 out of 0; outside of QC limits

Comments:

FORM II

Form II. Surrogate Percent Recovery Summary (water)

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. URS West Contract Laboratory COMPUCHEM Contract No. Platinum

	VOLATILE			SEMI-VOLATILE								PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLOROETHANE-D4 (76-114)	NITRO-BENZENE-D5 (35-114)	2-FLUORO-BIPHENYL (43-116)	TERPHENYL-D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	DIBUTYL CHLORENDATE ** (24-154)
CF860513B19	96	98	81	NR	NR	NR			NR	NR	NR	NR
CB860514B19	100	102	94	NR	NR	NR			NR	NR	NR	NR
~~6-552T-17~~	NR	NR	NR	NR	NR	NR			NR	NR	NR	84

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 6 ; outside of QC limits

Semi-Volatiles: 0 out of 0 ; outside of QC limits

Pesticides: 0 out of 1 ; outside of QC limits

Comments:

METHOD BLANK SUMMARY

INSTRUMENT BLANK

Case No. URS West Region - Contractor Compuchem Contract No. Platinum

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC/LEVEL	INSTR. ID	CAS NUMBER	COMPOUND (NBS, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
CF860513B19	5-13	V	L	L	19	-	none	-	-	-
CB860514B19	5-14	V	L	L	19	-	"	-	-	-

Comments:

METHOD BLANK SUMMARY

Case No. URS west Region — Contractor COMPUCHEM Contract No. Platinum —

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC LEVEL	INST. ID	GAS MARKER	COMPOUND CAS, TIC OR SURROGATE	CONC.	UNITS	COMMENTS
Q1108540	5/16/86	SV	L	L	C16	—	NONE	—	—	—

Comments:

FORM IV 7/88

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

68-01-6606

CASE NO: URS West CONTRACTOR: CompuChem Labs CONTRACT: 68-01-7017

INSTRUMENT ID: 16 DATE: 03/26/86 TIME: 2:36

LAB ID: DH860326C16 DATA RELEASE AUTHORIZED BY: SC _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	42.76	1
68	Less than 2.0% of mass 69	0.00	(0.00)
69	Mass 69 relative abundance	59.98	1
70	Less than 2.0% of mass 69	0.00	(0.00)
127	40.0 - 60.0% of mass 198	56.57	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	7.43	
275	10.0 - 30.0% of mass 198	21.56	
365	Greater than 1.00% of mass 198	2.40	
441	Present, but less than mass 443	8.47	
442	Greater than 40.0% of mass 198	58.64	2
443	17.0 - 23.0% of mass 442	10.93	(18.63)

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	DH860326C16	03/26/86	2:36
50 NGSTD	HG860326C16	03/26/86	3:45
80 NGSTD	HH860326C16	03/26/86	4:27
20 NGSTD	HI860326C16	03/26/86	4:58
120 NGSTD	HJ860326C16	03/26/86	6:04
160 NGSTD	HK860326C16	03/26/86	7:18

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

CASE NO: URS West. CONTRACTOR: CompuChem Labs CONTRACT: 68-01-7017

68-01-6806

INSTRUMENT ID: 16 DATE: 05/15/86 TIME: 19:59

LAB ID: BM860515B16 DATA RELEASE AUTHORIZED BY: JPM _____

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	50.00	
68	Less than 2.0% of mass 69	0.32	(0.83) 1
69	Mass 69 relative abundance	38.48	1
70	Less than 2.0% of mass 69	0.34	(0.88) 1
127	40.0 - 60.0% of mass 198	40.94	
197	Less than 1.0% of mass 198	0.00	
198	Base peak, 100% relative abundance	100.00	
199	5.0 - 9.0% of mass 198	6.54	
275	10.0 - 30.0% of mass 198	26.56	
365	Greater than 1.00% of mass 198	4.36	
441	Present, but less than mass 443	7.68	
442	Greater than 40.0% of mass 198	64.12	
443	17.0 - 23.0% of mass 442	11.89	(18.54) 2

1 Value in parenthesis is % mass 69
2 Value in parenthesis is % mass 442

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	BM860515B16	05/15/86	19:59
50 NG STD	MH860515B15	05/15/86	20:53
CHROM CHEK	SC860515B16	05/15/86	22:05
BLANK	GHD85039B16	05/15/86	22:56
BF155MS	GHD84811B16	05/15/86	23:37
BF155MSD	GHD84812C16	05/16/86	: 3
BF155	GHD84806C16	05/16/86	:42
COMM	GHD84986C16	05/16/86	1:10
COMM	GHD84873C16	05/16/86	2:15
COMM	GHD84874C16	05/16/86	2:44
COMM	GHD84871C16	05/16/86	4:14
COMM	GHD84875C16	05/16/86	4:42
COMM	GHD84869C16	05/16/86	5:13
COMM	GHD85040C16	05/16/86	5:43
COMM	GHD84973C16	05/16/86	6:54

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

LABS NO: URS West CONTRACTOR: Enseco-Cal DENVER, CO

INSTRUMENT ID: 16 DATE: 05/17/86 TIME: 0744

LAB ID: BHB0251A16 DATA RELEASE AUTHORIZED BY: BM

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.62
68	Less than 2.0% of mass 69	0.41
69	Mass 69 relative abundance	45.61
70	Less than 2.0% of mass 69	0.82
127	40.0 - 60.0% of mass 198	46.76
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	101.00
199	5.0 - 9.0% of mass 198	7.16
275	10.0 - 30.0% of mass 198	24.00
365	Greater than 1.00% of mass 198	1.54
441	Present, but less than mass 442	10.24
442	Greater than 40.0% of mass 198	76.66
443	17.0 - 23.0% of mass 442	18.24

1 Value is percentage of mass [illegible]

2 Value is percentage of mass [illegible]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

CLIENT ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
[illegible]	BHB0251A16	05/17/86	0744
BD 04 [illegible]	BHB0251A16	05/17/86	0744
CHROM BLK	BCB0251A16	05/17/86	0744
BBMM	BHB0498[illegible]A16	05/[illegible]/86	1821
LBMM	BHB0497A16	05/17/86	1801
BF13c	BJB0482A16	05/17/86	1370
CCMM	BJB0482BA16	05/17/86	1236
BF139	BJB0483A16	05/17/86	1358
BF142	BJB0483A16	05/17/86	1537
BZ007	BJB0486A16	05/17/86	1421
ACB04	BJB0486A16	05/17/86	1450
CBMP	BJB0487A16	05/17/86	1530
CBMM	BHB0496A16	05/17/86	1612
CBMY	BHB0497A16	05/17/86	1641
[illegible]	BHB0[illegible]A16	05/17/86	[illegible]
DIMM	BHB0500A16	05/17/86	1747
LCMM	BHB0501A16	05/17/86	[illegible]

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)

68-01-6866

CASE NO: URS west CONTRACTOR: CompuChem Labs CONTRACT: 68-01-7017

INSTRUMENT ID: 19 DATE: 05/13/86 TIME: 15:03

LAB ID: BFB60513A19 DATA RELEASE AUTHORIZED BY: SAH Sally Hubbard

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	18.37	
75	30.0 - 60.0% of the base peak	51.06	
95	Base peak, 100% relative intensity	100.00	
96	5.0 - 9.0% of the base peak	6.35	
173	Less than 1.0% of the base peak	0.00	
174	Greater than 50.0% of the base peak	76.59	
175	5.0 - 9.0% of mass 174	5.52 [1]	(7.20)
176	Greater than 95.0%, but less than 101.0% of mass 174	74.92 [1]	(97.81)
177	5.0 - 9.0% of mass 176	4.77 [2]	(6.36)

1 Value in parenthesis is % mass 174
2 Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	BFB60513A19	05/13/86	15:03
50 UG/L	CSB60513A19	05/13/86	15:22
INSTR BLK	CBB60513B19	05/13/86	16:04
50 UG/L	CSB60513B19	05/13/86	16:49
NEW 1301	CTB60513B19	05/13/86	18:02
20 UG/L	CUB60513B19	05/13/86	19:05
100 UG/L	CVB60513B19	05/13/86	19:46
150 UG/L	CWB60513B19	05/13/86	21:03
200 UG/L	CXB60513B19	05/13/86	21:51
INSTR BLK	CCB60513B19	05/13/86	23:34
INSTR BLK	CDB60513B19	05/14/86	:16
INSTR BLK	CEB60513B19	05/14/86	1:18
INSTR BLK	CFB60513B19	05/14/86	2:25

GC/MS TUNING AND MASS CALIBRATION •
Bromofluorobenzene (BFB)

CASE NO: URS West CONTRACTOR: CompuChem Labs CONTRACT: 68-01-6866 68-01-7017

INSTRUMENT ID: 19 DATE: 05/14/86 TIME: 16:09

LAB ID: BFB860514B19 DATA RELEASE AUTHORIZED BY: SAH

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	19.16	
75	30.0 - 60.0% of the base peak	56.40	
95	Base peak, 100% relative intensity	100.00	
96	5.0 - 9.0% of the base peak	8.98	
173	Less than 1.0% of the base peak	0.00	
174	Greater than 50.0% of the base peak	65.09	
175	5.0 - 9.0% of mass 174	5.22	(8.01) [1]
176	Greater than 95.0%, but less than 101.0% of mass 174	65.09	(100.00) [1]
177	5.0 - 9.0% of mass 176	4.47	(6.86) [2]

1 Value in parenthesis is % mass 174
2 Value in parenthesis is % mass 176

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	BFB860514B19	05/14/86	16:09
50 UG/L	CS860514B19	05/14/86	16:30
INSTR BLK	CB860514B19	05/14/86	17:17
A,A (QC)	CN084967B19	05/14/86	18:16
A,A (QC)	CN084970B19	05/14/86	19:04
A,A (QC)	CN084971B19	05/14/86	19:53
E	CN084977B14	05/14/86	20:32
C	CN084980B19	05/14/86	21:16
D	CN084981B19	05/14/86	22:12
F	CN084984B19	05/14/86	22:57
G	CN084985C19	05/15/86	:17
HB1	CN085006C19	05/15/86	1:16
D2	CN085084C19	05/15/86	2:03
D2	CR085084C19	05/15/86	3:02

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR VOLATILE HSL COMPOUNDS

VOLATILE COMPOUNDS DETECTION LIMIT STUDY - AMENDED JANUARY 15, 1985

NAME	MEAN	STD. DEV.	3 x STD. DEV (Converted to ug/L) Inst. DET. Limit
Bromochloromethane (IS)	-----	--------	ug/L
Chloromethane	105874	19930	28
Bromomethane	149468	16890	17
Vinyl Chloride	124730	14679	18
Chloroethane	64814	5398	12
Methylene Chloride	121772	14054	17
Acetone (2-Propanone)	22417	1979	13
Carbon Disulfide	355229	51739	22
1,1-Dichloroethylene	116890	14657	19
1,1-Dichloroethane	216032	26269	18
Trans -1,2 -Dichloroethylene	111789	15069	20
Chloroform	261539	29277	17
1,2-Dichloroethane	181477	16957	14
1,4 Difluorobenzene (Internal Std)	------	-----	--
2-Butanone	12072	1374	17
1,1,1-Trichloroethane	195419	23281	18
Carbon Tetrachloride	201317	17824	13
Vinyl Acetate	199598	23864	18
Bromodichloromethane	230138	26399	17
1,2-Dichloropropane	158286	16219	15
Trans-1,3-Dichloropropene	196807	24068	18
Trichloroethylene	173661	15429	13
Chlorodibromomethane	195098	15979	12
1,1,2-Trichloroethane	137818	11975	13
Benzene	381933	26886	10
CIS-1,3-Dichloropropene	164184	14236	13
2-Chloroethyl Vinyl Ether	87902	12117	21
Bromoform	130767	8839	10
D5 Chlorobenzene (Internal Std.)	------	-------	--
2-Hexanone	114919	13303	17
4-Methyl-2-Pentanone	82333	9210	17
Tetrachloroethene	158468	14255	13
1,1.2,2-Tetrachloroethane	186826	15490	12
Toluene	247542	27182	16
Chlorobenzene	338123	25840	11
Ethylbenzene	173342	13736	12
Styrene	366700	34503	14
M-Xylene	230196	21856	14
O- & P-Xylene	451397	42601	28
D4-1,2-Dichloroethane	------	-------	--
Bromofluorobenzene	------	-------	--
D8-Toluene	------	-------	--

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR SEMI-VOLATILE HSL COMPOUNDS, JUNE 19, 1985

COMPOUND NAME	HG850619C15	HG850519B15	HI850620A15	AVERAGE	SD	DET. LIMIT
N-NITROSODIMETHYLAMINE	67.46	52.87	53.49	57.94	8.25	24.75
PHENOL	52.51	46.51	52.98	50.67	3.61	10.82
ANILINE	47.10	37.93	37.79	40.94	5.33	16.00
BIS (2-CHLOROETHYL) ETHER	48.75	44.43	47.55	46.91	2.23	6.69
2-CHLOROPHENOL	49.90	48.05	51.29	49.75	1.62	4.87
1,3-DICHLOROBENZENE	52.38	31.54	53.89	45.94	12.49	37.47
1,4-DICHLOROBENZENE	51.69	49.51	50.66	50.62	1.09	3.26
BENZYL ALCOHOL	48.86	42.40	47.96	46.40	3.50	10.50
1,2-DICHLOROBENZENE	47.88	46.67	48.21	47.59	.81	2.44
2-METHYLPHENOL	45.29	42.09	47.29	44.89	2.62	7.87
BIS (2-CHLOROISOPROPYL) ETHER	53.92	43.33	42.35	46.53	6.41	19.24
4-METHYLPHENOL	48.18	44.85	53.08	48.70	4.14	12.41
N-NITROSO-DI-N-PROPYLAMINE	44.85	36.62	45.98	42.49	5.11	15.32
HEXACHLOROETHANE	42.30	40.48	45.68	42.82	2.64	7.93
NITROBENZENE	38.23	33.40	38.94	36.86	3.01	9.04
ISOPHORONE	46.18	38.13	43.16	42.49	4.06	12.19
2-NITROPHENOL	46.31	48.08	47.33	47.24	.89	2.67
2,4-DIMETHYLPHENOL	52.89	49.60	51.39	51.29	1.65	4.94
BENZOIC ACID	25.41	17.60	29.46	24.16	6.03	18.10
BIS (2-CHLOROETHOXY)METHANE	56.58	46.96	51.52	51.69	4.81	14.43
2,4-DICHLOROPHENOL	51.22	51.29	51.44	51.32	.11	.34
1,2,4-TRICHLOROBENZENE	55.15	56.66	52.78	54.86	1.96	5.87
NAPTHALENE	54.36	52.02	54.19	53.52	1.31	3.92
4-CHLOROANILINE	52.32	42.44	45.63	46.80	5.04	15.13
HEXACHLOROBUTADIENE	48.21	50.85	50.14	49.73	1.37	4.10
4-CHLORO-3-METHYLPHENOL	41.22	37.90	45.26	41.46	3.68	11.05
2-METHYLNAPTHALENE	48.05	46.50	46.51	47.02	.89	2.67
HEXACHLOROCYCLOPENTADIENE	35.03	52.63	47.12	44.92	9.00	27.01
2,4,6-TRICHLOROPHENOL	47.94	51.55	53.21	50.90	2.69	8.08
2,4,5-TRICHLOROPHENOL	50.73	51.55	58.29	53.52	4.15	12.44
2-CHLORONAPTHALENE	58.61	57.70	59.29	58.53	.80	2.39
2-NITROANILINE	41.78	29.35	38.61	36.58	6.46	19.38
DIMETHYL PHTHALATE	54.96	45.47	56.75	52.39	6.06	18.19
ACENAPHTHYLENE	57.95	52.70	59.07	56.57	3.40	10.21
3-NITROANILINE	44.39	37.85	49.69	43.98	5.93	17.79
ACENAPHTHENE	52.74	49.46	53.38	51.86	2.10	6.31
2,4-DINITROPHENOL	51.24	46.87	66.20	54.77	10.13	30.40
4-NITROPHENOL	42.32	47.57	58.24	49.38	8.11	24.33
DIBENZOFURAN	51.13	50.13	53.59	51.62	1.78	5.34
2,4-DINITROTOLUENE	50.64	30.86	55.93	45.81	13.22	39.65
2,6-DINITROTOLUENE	53.84	52.86	59.77	55.49	3.73	11.20
DIETHYL PHTHLATE	48.50	41.33	52.21	47.35	5.53	16.59
4-CHLOROPHENYL PHENYL ETHER	60.00	58.62	63.26	60.63	2.38	7.15
FLUORENE	54.43	52.99	60.01	55.81	3.71	11.12
4-NITROANILINE	42.33	26.94	35.20	34.82	7.70	23.10

(cont'd)

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR SEMI-VOLATILE HSL COMPOUNDS, JUNE 19, 1985

4,6-DINITRO-2-METHYLPHENOL	27.94	30.51	44.55	34.33	8.94	26.83
N-NITROSODIPHENYLAMINE	58.27	49.58	62.41	56.75	6.55	19.65
4-BROMOPHENYL PHENYL ETHER	59.56	61.91	69.33	63.60	5.10	15.29
HEXACHLOROBENZENE	63.39	61.52	70.78	65.23	4.89	14.68
PENTACHLOROPHENOL	48.23	45.84	39.21	44.43	4.67	14.01
PHENANTHRENE	54.58	50.49	60.27	55.12	4.91	14.73
ANTHRACENE	51.69	49.46	59.31	53.49	5.17	15.50
DI-N-BUTYL PHTHALATE	48.57	37.41	52.02	46.00	7.63	22.90
FLUORANTHENE	47.84	40.84	48.22	45.63	4.15	12.46
BENZIDINE	50.83	--	--	16.94	29.35	88.05
PYRENE	61.13	62.82	63.68	62.55	1.30	3.89
BUTYLBENZYL PHTHALATE	33.54	30.74	42.0	35.43	5.87	17.62
3,3 DICHLOROBENZIDINE	46.26	19.41	39.82	35.16	14.01	42.04
BENZO(A)ANTHRACENE	52.54	50.75	52.08	51.79	.93	2.79
BIS(2-ETHYLHEXYL) PHTHALATE	46.86	42.82	50.92	46.87	4.05	12.15
CHRYSENE	54.14	48.36	52.70	51.73	3.01	9.04
DI-N-OCTYL PHTHALATE	49.50	41.56	50.23	47.10	4.81	14.43
BENZO(B)FLUORANTHENE	61.94	59.52	62.04	61.17	1.43	4.29
BENZO(K)FLUORANTHENE	61.94	59.52	62.04	61.17	1.43	4.29
BENZO(A)PYRENE	58.88	30.68	59.53	49.69	16.47	49.42
INDENO(1,2,3-C,D)PYRENE	62.71	62.30	86.82	70.61	14.04	42.11
DIBENZO(A,H)ANTHRACENE	68.05	65.33	90.91	74.77	14.05	42.14
BENZO(G,H,I)PERYLENE	62.42	63.53	88.56	71.50	14.78	44.34

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR PESTICIDE HSL COMPOUNDS, OCTOBER, 1984

MINIMUM INSTRUMENT DETECTION LEVEL BY THREE STANDARD INJECTIONS

The following data was obtained by making three injections of pesticide PCB standards over the course of 24 hours. The areas of single peak pesticides was calculated by the HP LAS data system. The area for the multi peak pesticides and PCBs was calculated by summing the areas of the peaks.
The instrument detection level was calculated as follows:

Det level = ((3 * SD)/ Mean) * conc of std
EXAMPLE Gamma BHC Det level = ((3 * 18.5)/ 956) * 0.03ug/ml = 0.00098ug/ml
The column tested was a 1.5% SP2250/ 1.95% SP2401 2m x 4mm column run isothermally in a Varian 3700 GC with EC detector.

Two data points are missing because there was a bad injection for the first run of the standard containing Arochlor 1016 and 1260. These Archlors were calculated on the basis of two injections.

COMPOUND	CONC STD	AREA 1	AREA 2	AREA 3	MEAN AREA	SD	INST. DET. LEVEL
STD 4360							
GAMMA BHC	.01	968	966	935	956	18.5	0.00058
HEPTACHLOR	.01	925	957	891	924	33.0	0.00107
ALORIN	.01	998	1004	969	990	18.7	0.00059
GAMMA CHLOR	.01	885	874	903	887	14.6	0.00049
ENDOSULFAN I	.02	1660	1650	1620	1643	20.8	0.00076
OIELORIN	.02	1894	1915	1855	1888	30.4	0.00097
ENDOSULFAN II	.04	2362	2241	2332	2312	63.0	0.00327
PP'DOT	.06	2518	2558	2505	2527	27.6	0.00197
METHOXYCHLOR	.05	942	957	940	946	9.29	0.00147
STD 4364							
ALPHA BHC	.01	1135	1132	1079	1115	31.5	0.00085
BETA BHC	.02	741	737	713	730	15.1	0.00124
DELTA BHC	.01	772	857	691	773	83.0	0.00322
HEPT. EPOXIDE	.01	860	857	942	886	48.2	0.00163
ALPHA CHLOR	.02	1652	1643	1584	1826	36.9	0.00136
PP'ODE	.02	1615	1612	1566	1598	27.3	0.00103
ENDRIN	.04	1304	1287	1256	1282	24.3	0.00228
PP'DDO	.04	2310	2277	2232	2273	39.1	0.00206
ENDRIN ALDEHYDE	.04	3419	3371	3173	3321	130	0.00589
ENDO. SULFATE	.04	733	691	516	647	115	0.02669
ENORIN KEYTONE	.10	6276	6613	5780	6223	419	0.02020
MULTI PEAKS PESTS							
TOXAPHENE	1.0	7093	9856	6715	6888	191	0.0832
TECH. CHLORDANE	.20	3357	3157	3280	3265	101	0.0186

(cont'd)

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR PESTICIDE HSL COMPOUNDS, OCTOBER, 1984

MINIMUM INSTRUMENT DETECTION LEVEL BY THREE STANDARD INJECTIONS

AROCHLORS							
1221	1.0	2383	2320	2323	2342	25.5	0.0455
1232	.70	3313	3218	3261	3264	47.6	0.0306
1016	.30	NA	2495	2472	2483	16.3	0.0059
1242	.40	3358	3297	3295	3317	35.8	0.0129
1248	.40	5266	5044	5097	5136	116	0.0291
1254	.30	6449	6277	6217	6314	120	0.0192
1260	.30	NA	9515	10170	9842	463	0.0423

COMPUCHEM LABORATORIES

INSTRUMENT DETECTION LIMITS FOR PESTICIDE HSL COMPOUNDS, OCTOBER, 1984

PESTICIDE GC/MS INSTRUMENT DETECTION LIMIT STUDY

COMPOUND	RUN 1	RUN2	RUN3	AVERAGE	STANDARD DEVIATION	DET LIMIT (NG)
PCB 1248	214592	361856	268928	281792	108319	115
PCB 1221	864544	602048	714496	727029	261315	109
PCB 1242	359840	487744	471424	439669	167105	114
PCB 1260	45760	82464	63968	64064	26061	122
PCB 1232	229120	155520	213504	199381	77894	117
BETA BHC	438752	531616	788032	586133	301361	154
ENDRIN	104128	126464	191232	140608	73674	157
DDD	13111350	1660510	2606070	5792643	5261689	273
ENDOSULFAN SULF	182144	213312	347104	247520	136041	165
GAMMA CHLORDANE	438848	482336	892896	604693	361151	179
PCB 1254	128416	137696	138324	134912	46437	103
TOXAPHENE	1102230	619744	54848	592274	428423	217
GAMMA BHC	507232	455904	513184	492107	172983	105
DELTA BHC	347904	301984	325024	324971	109951	102
HEPTACHLOR EPOX	162432	139776	160224	154144	54373	106
ENDOSULFAN I	100992	80544	99040	93525	34275	110
ENDOSULFAN II	9984	8738	10848	9856	3718	113
DDE	606368	515200	582208	567925	197864	105
ALDRIN	957152	700064	1049370	902195	379735	126
ENDRIN ALDEHYDE	449280	419648	596160	488363	213181	131
ENDRIN KEYTONE	66624	65856	91104	74528	32553	131
METHOXYCHLOR	960608	955744	1286200	1067517	455771	128

Initial Calibration Data
Volatile MSI Compounds

Case No. [illegible]
Contractor: ConCuChem Laboratories
Contract No. Platinum

Instrument ID: GMS M19
Calibration Date: 05/13/86

Maximum Avg RF for SPCC is 0.30

Maximum %RSD for CCC is 30%

Laboratory ID	CV860513B19	CV860513B19	CV860513B19	CV860513B19	CV860513B19			
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	Avg RF	%RSD	CCC * SPCC **
Chloromethane	1.231	.654	.937	1.049	.917	0.958	22.006	*
Bromomethane	2.306	1.338	1.657	1.860	1.648	1.762	20.747	
Vinyl Chloride	1.342	.672	.960	1.152	1.065	1.039	24.048	*
Chloroethane	.713	.435	.523	.591	.529	0.558	18.954	
Methylene Chloride	.887	.749	.761	.849	.854	0.816	7.582	
Acetone	.130	.152	.109	.121	.122	0.127	12.566	
Carbon Disulfide	1.369	1.682	1.796	2.230	2.220	1.861	19.963	
1,1-Dichloroethene	1.089	.920	.963	1.094	1.047	1.023	7.632	*
1,1-Dichloroethane	1.169	1.057	1.105	1.287	1.338	1.190	10.895	* **
Trans-1,2-Dichloroethene	1.030	.928	.952	1.081	1.081	1.015	7.123	
Chloroform	2.143	2.019	2.119	2.436	2.524	2.249	9.701	*
1,2-Dichloroethane	1.291	1.135	1.213	1.376	1.454	1.294	9.867	
2-Butanone	.085	.010	.010	.012	.014	0.011	16.000	
1,1,1-Trichloroethane	.509	.429	.453	.522	.559	0.495	10.863	
Carbon Tetrachloride	.652	.540	.598	.688	.702	0.637	10.354	
yl Acetate	.121	.160	.156	.169	.174	0.156	12.304	
omodichloromethane	.442	.420	.461	.533	.588	0.490	12.601	
1,2-Dichloropropane	.223	.204	.207	.229	.254	0.225	9.812	*
Trans-1,3-Dichloropropene	.313	.289	.316	.349	.376	0.329	10.317	
Trichloroethene	.503	.409	416	.435	.431	0.439	7.614	
Dibromochloromethane	.562	.489	.550	.623	.648	0.574	11.013	
1,1,2-Trichloroethane	.315	.282	.292	.319	.329	0.306	6.193	
Benzene	.571	.485	.485	.523	.565	0.525	8.206	
cis-1,3-Dichloropropene	.197	.175	.220	.260	.296	0.229	25.268	
2-Chloroethylvinylether	.105	.088	.097	.102	.113	0.101	9.369	
Bromoform	.350	.294	.347	.409	.399	0.359	12.942	* **
4-Methyl-2-pentanone	.132	.143	.140	.144	.151	0.142	4.938	
2-Hexanone	.091	.095	.095	.095	.099	0.095	3.744	
Tetrachloroethene	.528	.443	.426	.442	.426	0.453	9.405	
1,1,2,2-Tetrachloroethane	.421	.347	.379	.416	.412	0.395	8.017	* **
Toluene	.540	.494	.510	.517	.536	0.519	3.637	*
Chlorobenzene	.951	.855	.847	.862	.876	0.878	4.847	* **
Ethylbenzene	.472	.409	.409	.416	.416	0.424	6.262	*
Styrene	.907	1.060	.945	.974	.964	0.972	6.315	
M-Xylene	.621	.710	.616	.627	.611	0.637	6.486	

RF_{xx} - Response Factor (subscript is the amount of ug/L)
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

CCC - Calibration Compounds (*)
SPCC - System Performance Check Compounds (**)

Initial Calibration Data
Semivolatile MSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No. _____

Instrument ID : DWA #16
Calibration Date : 03/26/86

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MI860326C16	MG860326C16	MK860326C16	MJ860326C16	MK860326C16			
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	Avg RF	%RSD	CCC - SPCC -
Phenol	2.570	2.832	2.504	2.362	2.357	2.525	7.709	*
bis(-2-Chloroethyl)Ether	2.156	2.187	2.040	2.092	1.958	2.087	4.395	
2-Chlorophenol	1.525	1.546	1.446	1.480	1.461	1.492	2.638	
1,3-Dichlorobenzene	1.607	1.676	1.595	1.546	1.483	1.581	4.556	
1,4-Dichlorobenzene	1.773	1.651	1.551	1.537	1.450	1.592	7.757	*
Benzyl Alcohol	1.133	1.196	1.120	1.143	1.113	1.141	2.869	
1,2-Dichlorobenzene	1.653	1.580	1.523	1.535	1.434	1.545	5.211	
2-Methylphenol	1.397	1.463	1.424	1.469	1.341	1.419	3.703	
bis(2-chloroisopropyl)Ether	3.855	4.155	3.837	3.934	3.763	3.909	3.852	
4-Methylphenol	1.684	1.899	1.669	1.617	1.513	1.676	8.429	
N-Nitroso-Di-n-Propylamine	2.021	2.238	2.030	1.998	1.922	2.042	5.765	* *
Hexachloroethane	.950	.960	.933	.972	.896	0.949	3.164	
Nitrobenzene	2.513	2.849	2.600	2.752	2.614	2.666	5.604	
Isophorone	1.249	1.344	1.357	1.357	1.250	1.311	4.316	
2-Nitrophenol	.193	.201	.211	.210	.216	0.206	4.350	*
2,4-Dimethylphenol	.342	.349	.355	.345	.325	0.342	3.082	
Benzoic Acid	.225	.196	.171	.166	.169	0.185	13.544	
bis(-2-Chloroethoxy)Methane	.587	.611	.590	.589	.582	0.592	1.879	
2,4-Dichlorophenol	.280	.300	.305	.293	.282	0.292	3.703	*
1,2,4-Trichlorobenzene	.350	.340	.336	.330	.326	0.336	2.701	
Naphthalene	1.106	1.138	1.115	1.039	.992	1.077	5.712	
4-Chloroaniline	.516	.512	.532	.501	.479	0.507	3.758	
Hexachlorobutadiene	.209	.186	.190	.187	.181	0.191	5.743	*
4-Chloro-3-Methylphenol	.452	.484	.489	.485	.481	0.478	3.135	*
2-Methylnaphthalene	.680	.681	.677	.640	.604	0.657	5.171	
Hexachlorocyclopentadiene	.274	.318	.326	.332	.301	0.310	7.492	* *
2,4,6-Trichlorophenol	.369	.437	.438	.428	.413	0.417	6.671	*
2,4,5-Trichlorophenol	.399	.316	.277	.327	.348	0.334	13.458	
2-Chloronaphthalene	1.274	1.072	.993	1.010	.960	1.062	11.798	
2-Nitroaniline	.718	.827	.759	.768	.794	0.773	5.258	
Dimethyl Phthalate	1.429	1.425	1.392	1.315	1.336	1.379	3.753	
Acenaphthylene	1.911	1.948	1.778	1.699	1.586	1.785	8.386	
3-Nitroaniline	.384	.397	.387	.400	.412	0.396	2.780	
Acenaphthene	1.253	1.183	1.107	1.081	1.023	1.129	7.950	*
2,4-Dinitrophenol	.090	.086	.093	.065	.077	0.082	14.023	* *
4-Nitrophenol	.283	.460	.457	1.046	1.016	0.652	54.156	* *
Dibenzofuran	1.760	1.667	1.583	1.478	1.428	1.583	8.559	
2,4-Dinitrotoluene	.616	.726	.641	.375	.466	0.564	25.098	
2,6-Dinitrotoluene	.296	.328	.267	.315	.325	0.306	8.273	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
0 - not detectable at 20ng

Initial Calibration Data
Semivolatile HSL Compounds
(Page 2)

Case No: _____
Contractor. CompuChem Laboratories
Contract No. _____

Instrument ID : GWA #16
Calibration Date : 03/26/86

Minimum Avg RF for SPCC is 0.050

Maximum %RSD for CCC is 30%

Laboratory ID	MI860326C16	MG860326C16	MH860326C16	MJ860326C16	MK860326C16			
Compound	RF(20)	RF(50)	RF(60)	RF(120)	RF(160)	Avg RF	%RSD	CCC SPCC
Diethylphthalate	1.752	1.691	1.614	1.286	1.328	1.534	13.932	
4-Chlorophenyl-phenylether	.596	.576	.512	.510	.476	0.534	9.455	
Fluorene	1.263	1.304	1.177	1.136	1.098	1.196	7.216	
4-Nitroaniline	.351	.315	.340	.349	.301	0.331	6.769	
4,6-Dinitro-2-Methylphenol	.062	.076	.086	.099	.102	0.085	19.510	
N-Nitrosodiphenylamine(1)	.640	.641	.703	.568	.704	0.651	8.596	*
4-Bromophenyl-phenylether	.253	.245	.269	.291	.254	0.262	6.963	
Hexachlorobenzene	.316	.300	.325	.347	.319	0.321	5.350	
Pentachlorophenol	.164	.203	.198	.197	.190	0.189	8.629	*
Phenanthrene	1.314	1.333	1.547	1.599	1.530	1.465	8.98[illegible]	
Anthracene	1.139	1.028	1.066	1.129	1.060	1.085	4.363	
Di-n-Butylphthalate	1.974	1.913	1.990	2.082	1.835	1.959	4.695	
Fluoranthene	1.327	1.294	1.404	1.319	1.273	1.323	3.762	*
Pyrene	1.691	1.534	1.391	1.398	1.300	1.461	10.184	
Butylbenzylphthalate	.966	1.109	.992	1.004	.957	1.006	6.063	
3,3'-Dichlorobenzidine	.410	.414	.412	.423	.392	0.412	2.877	
Benzo(a)Anthracene	1.374	1.230	1.370	1.308	1.182	1.293	6.587	
bis(2-Ethylhexyl)Phthalate	1.526	1.534	1.459	1.504	1.380	1.481	4.265	
Chrysene	1.102	1.104	1.066	1.141	1.091	1.117	4.003	
Di-n-Octyl Phthalate	2.527	2.673	2.285	2.371	2.074	2.386	9.606	*
Benzo(b)Fluoranthene	1.140	1.088	.958	.941	.876	1.001	10.959	
Benzo(k)Fluoranthene	1.140	1.088	.958	.941	.876	1.001	10.959	
Benzo(a)Pyrene	1.136	1.113	1.053	1.039	.975	1.063	5.974	*
Indeno(1,2,3-cd)Pyrene	1.220	1.258	1.259	1.219	1.255	1.242	1.677	
Dibenz(a,h)Anthracene	.999	1.055	1.006	.972	.979	1.001	3.378	
Benzo(g,h,i)Perylene	.924	1.003	.987	.981	1.021	0.983	3.726	
1,2,3,4-Tetrachlorobenzene	.579	.760	.599	.490	.474	0.582	19.382	

RF - Response Factor (subscript is the amount of nanograms)
Avg RF - Average Response Factor
%RSD - Percent Relative Standard Deviation
CCC - Calibration Compounds (*)

SPCC - System Performance Check Compounds (**)
5 - not detectable at 20ng
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Volatile HSL Compounds

Case No: URS West
Contractor: CompuChem Laboratories
Contract No: Platinum
Instrument ID : OMA M19

Calibration Date: 05/14/86
Time: 04:13
Laboratory ID : CS860514C19
Initial Calabration Date: 05/13/86

Minimum RF for SPCC is 0.300

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Chloromethane	0.958	0.712	25.637		**
Bromomethane	1.762	1.301	26.142		
Vinyl Chloride	1.039	0.831	20.063	*	
Chloroethane	0.558	0.455	18.473		
Methylene Chloride	0.818	1.004	-22.723		
Acetone	0.127	0.114	10.244		
Carbon Disulfide	1.861	1.736	6.742		
1,1-Dichloroethene	1.025	1.153	-12.502	*	
1,1-Dichloroethane	1.190	1.447	-21.569		**
Trans-1,2-Dichloroethene	1.015	1.183	-16.602		
Chloroform	2.247	2.665	-18.611	*	
1,2-Dichloroethane	1.286	1.577	-22.697		
2-Butanone	0.011	0.011	-2.702		
1,1,1-Trichloroethane	0.495	0.608	-22.769		
Carbon Tetrachloride	0.637	0.750	-17.734		
Vinyl Acetate	0.156	0.146	6.594		
Bromodichloromethane	0.493	0.606	-22.986		
1,2-Dichloropropane	0.225	0.257	-13.092	*	
cis-1,3-Dichloropropene	0.325	0.383	-17.762		
..richloroethene	0.443	0.490	-10.616		
Dibromochloromethane	0.574	0.631	-9.841		
1,1,2-Trichloroethane	0.306	0.346	-12.797		
Benzene	0.525	0.626	-19.245		
cis-1,3-Dichloropropene	0.229	0.269	-17.452		
2-Chloroethylvinylether	0.101	0.123	-21.541		
Bromoform	0.359	0.377	-5.104		**
4-Methyl-2-pentanone	0.142	0.130	8.603		
2-Hexanone	0.095	0.088	7.263		
Tetrachloroethene	0.453	0.500	-10.324		
1,1,2,2-Tetrachloroethane	0.395	0.465	-17.726		**
Toluene	0.519	0.596	-14.651	*	
Chlorobenzene	0.878	0.984	-12.045		**
Ethylbenzene	0.424	0.475	-11.993	*	
Styrene	0.972	0.827	14.850		
M-Xylene	0.637	0.551	13.559		

RF(50) - Response Factor from daily standard file 50 ug/l
...n RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile MSL Compounds
(Page 1)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GWA 816

Calibration Date: 05/15/85
Time: 20:53
Laboratory ID : HW860515B16
Initial Calabration Date: 03/26/85

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Phenol	2.525	2.290	9.310	*	
bis(-2-Chloroethyl)Ether	2.087	1.507	27.773		
2-Chlorophenol	1.492	1.257	15.732		
1,3-Dichlorobenzene	1.581	1.501	5.053		
1,4-Dichlorobenzene	1.592	1.591	0.106	*	
Benzyl Alcohol	1.141	0.681	40.320		
1,2-Dichlorobenzene	1.545	1.509	2.330		
2-Methylphenol	1.419	1.214	14.447		
bis(2-chloroisopropyl)Ether	3.909	3.377	13.620		
4-Methylphenol	1.676	1.334	20.396		
N-Nitroso-Di-n-Propylamine	2.042	1.653	19.023		**
Hexachloroethane	0.949	1.043	-10.466		
Nitrobenzene	2.666	2.366	10.485		
Isophorone	1.311	0.892	31.945		
-Nitrophenol	0.206	0.200	2.812	*	
2,4-Dimethylphenol	0.342	0.286	16.306		
Benzoic Acid	0.185	0.196	-5.609		
bis(-2-Chloroethoxy)Methane	0.592	0.482	18.570		
2,4-Dichlorophenol	0.292	0.294	-0.753	*	
1,2,4-Trichlorobenzene	0.336	0.360	-7.045		
Naphthalene	1.077	1.006	6.609		
4-Chloroaniline	0.507	0.382	24.565		
Hexachlorobutadiene	0.191	0.181	4.931	*	
4-Chloro-3-Methylphenol	0.478	0.449	6.111	*	
2-Methylnaphthalene	0.657	0.632	3.806		
Hexachlorocyclopentadiene	0.310	0.371	-19.503		**
2,4,6-Trichlorophenol	0.417	0.437	-4.796	*	
2,4,5-Trichlorophenol	0.334	0.293	12.080		
2-Chloronaphthalene	1.062	1.976	-86.144		
2-Nitroaniline	0.773	0.556	28.048		
Dimethyl Phthalate	1.379	1.318	4.487		
Acenaphthylene	1.785	1.749	2.017		
3-Nitroaniline	0.396	0.302	23.706		
Acenaphthene	1.129	1.092	3.320	*	
2,4-Dinitrophenol	0.082	0.072	11.829		**
4-Nitrophenol	0.652	0.994	-52.353		**
Dibenzofuran	1.583	1.546	2.318		
2,4-Dinitrotoluene	0.564	0.492	12.863		
2,6-Dinitrotoluene	0.306	0.283	7.709		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No. _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : GCMS #16

Calibration Date: 05/15/86
Time: 20:53
Laboratory ID : NH860515D16
Initial Calabration Date: 03/26/86

Minimum RT for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RF	RF(50)	%D	CCC	SPCC
Diethylphthalate	1.534	1.323	13.797		
4-Chlorophenyl-phenylether	0.534	0.562	-5.262		
Fluorene	1.196	1.172	1.982		
4-Nitroaniline	0.331	0.239	27.786		
4,6-Dinitro-2-Methylphenol	0.085	0.108	-26.112		
N-Nitrosodiphenylamine(1)	0.651	0.747	-14.713	*	
4-Bromophenyl-phenylether	0.262	0.279	-6.211		
Hexachlorobenzene	0.321	0.389	-21.070		
Pentachlorophenol	0.189	0.232	-22.386	*	
Phenanthrene	1.465	1.328	9.319		
Anthracene	1.095	0.979	9.761		
Di-n-Butylphthalate	1.959	1.901	2.915		
Fluoranthene	1.323	1.471	-11.123	*	
Pyrene	1.461	1.333	8.742		
Butylbenzylphthalate	1.006	0.651	35.229		
3,3'-Dichlorobenzidine	0.412	0.368	10.636		
Benzo(a)Anthracene	1.293	1.220	5.616		
bis(2-Ethylhexyl)Phthalate	1.481	0.900	39.196		
Chrysene	1.117	0.845	24.380		
Di-n-Octyl Phthalate	2.386	2.278	4.517	*	
Benzo(b)Fluoranthene	1.001	1.290	-28.935		
Benzo(k)Fluoranthene	1.001	1.290	-28.935		
Benzo(a)Pyrene	1.063	1.138	-7.017	*	
Indeno(1,2,3-cd)Pyrene	1.242	1.338	-7.697		
Dibenz(a,h)Anthracene	1.001	1.095	-9.398		
Benzo(g,h,i)Perylene	0.983	1.085	-10.335		
1,2,3,4-Tetrachlorobenzene	0.582	0.314	46.038		

RF(50) - Response Factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 1)

Case No. _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : OWR #16

Calibration Date: 05/17/86
Time: 07:39
Laboratory ID : MN860517A16
Initial Calabration Date: 03/26/86

Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RT	RF(50)	%D	CCC	SPCC
Phenol	2.525	1.938	23.235	*	
bis(-2-Chloroethyl)Ether	2.087	1.379	33.913		
2-Chlorophenol	1.492	1.252	16.108		
1,3-Dichlorobenzene	1.581	1.571	0.651		
1,4-Dichlorobenzene	1.592	1.697	-6.587	*	
Benzyl Alcohol	1.141	0.785	31.241		
1,2-Dichlorobenzene	1.545	1.539	0.362		
2-Methylphenol	1.419	1.039	26.753		
bis(2-chloroisopropyl)Ether	3.909	2.015	48.450		
4-Methylphenol	1.676	1.349	19.513		
N-Nitroso-Di-n-Propylamine	2.042	1.280	37.292		**
Hexachloroethane	0.944	0.856	9.364		
Nitrobenzene	2.666	1.770	33.609		
Isophorone	1.311	0.943	28.117		
2-Nitrophenol	0.206	0.199	3.588	*	
2,4-Dimethylphenol	0.342	0.332	3.009		
Benzoic Acid	0.185	0.181	2.265		
bis(-2-Chloroethoxy)Methane	0.592	0.411	30.483		
2,4-Dichlorophenol	0.292	0.307	-5.001	*	
1,2,4-Trichlorobenzene	0.336	0.394	-17.181		
Naphthalene	1.077	1.037	3.694		
4-Chloroaniline	0.507	0.481	5.149		
Hexachlorobutadiene	0.191	0.212	-10.965	*	
4-Chloro-3-Methylphenol	0.478	0.376	21.305	*	
2-Methylnaphthalene	0.657	0.627	4.537		
Hexachlorocyclopentadiene	0.310	0.497	-60.251		**
2,4,6-Trichlorophenol	0.417	0.491	-17.697	*	
2,4,5-Trichlorophenol	0.334	0.535	-60.491		
2-Chloronaphthalene	1.062	1.270	-19.581		
2-Nitroaniline	0.773	0.525	32.083		
Dimethyl Phthalate	1.379	1.558	-12.969		
Acenaphthylene	1.785	1.890	-5.884		
3-Nitroaniline	0.396	0.353	10.881		
Acenaphthene	1.129	1.251	-10.767	*	
2,4-Dinitrophenol	0.082	0.139	-69.634		**
4-Nitrophenol	0.652	0.244	62.659		**
Dibenzofuran	1.583	1.703	-7.573		
2,4-Dinitrotoluene	0.564	0.614	-8.734		
2,6-Dinitrotoluene	0.306	0.338	-10.290		

RF(50) - Response factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI

%D - Percent Difference
CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
Semivolatile HSL Compounds
(Page 2)

Case No: _____
Contractor: CompuChem Laboratories
Contract No: _____
Instrument ID : OWA #16

Calibration Date: 05/17/86
Time: 07:39
Laboratory ID : WH860517R16
Initial Calabration Date: 03/26/86

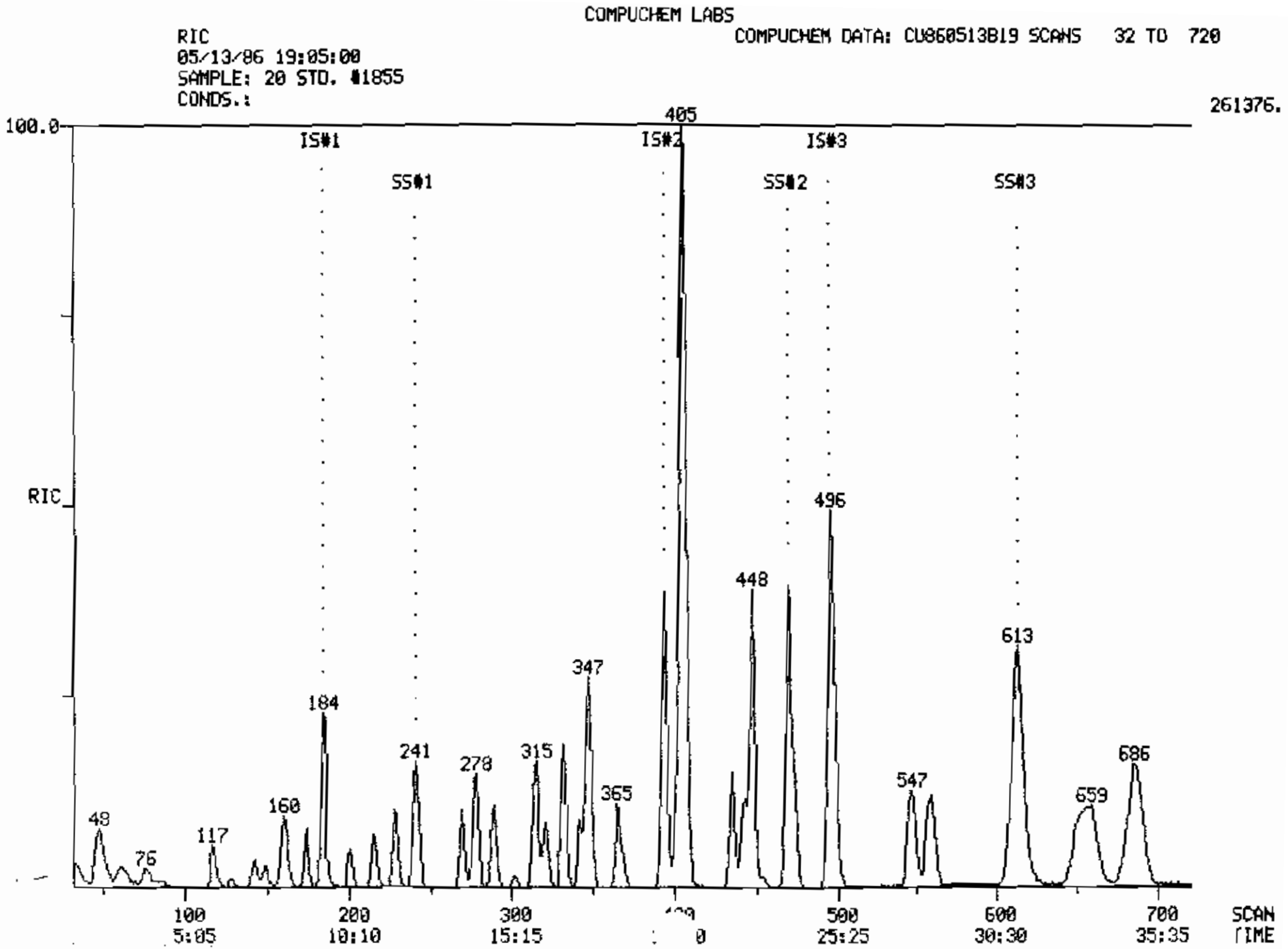
Minimum RF for SPCC is 0.050

Maximum %D for CCC is 25%

Compound	Avg RT	RT(50)	%D	CCC	SPCC
Diethylphthalate	1.534	1.627	-6.028		
4-Chlorophenyl-phenylether	0.534	0.643	-20.337		
Fluorene	1.196	1.331	-11.308		
4-Nitroaniline	0.331	0.339	-2.385		
4,6-Dinitro-2-Methylphenol	0.085	0.123	-43.793		
N-Nitrosodiphenylamine(1)	0.651	0.583	10.459	*	
4-Bromophenyl-phenylether	0.262	0.306	-16.692		
Hexachlorobenzene	0.321	0.434	-35.200		
Pentachlorophenol	0.189	0.188	1.003	*	
Phenanthrene	1.465	1.404	4.130		
Anthracene	1.085	1.314	-21.098		
Di-n-Butylphthalate	1.959	1.865	4.768		
Fluoranthene	1.323	1.269	4.095	*	
Pyrene	1.461	1.455	0.403		
Butylbenzylphthalate	1.006	0.935	7.000		
3,3'-Dichlorobenzidine	0.412	0.469	-13.890		
Benzo(a)Anthracene	1.293	1.298	-0.394		
bis(2-Ethylhexyl)Phthalate	1.481	1.327	10.368		
Chrysene	1.117	1.164	-4.134		
Di-n-Octyl Phthalate	2.386	2.165	9.261	*	
Benzo(b)Fluoranthene	1.001	1.318	-31.694		
Benzo(k)Fluoranthene	1.001	0.964	3.658		
Benzo(a)Pyrene	1.063	1.079	-1.458	*	
Indeno(1,2,3-cd)Pyrene	1.242	1.301	-4.710		
Dibenz(a,h)Anthracene	1.001	1.057	-5.613		
Benzo(g,h,i)Perylene	0.983	1.068	-8.626		
1,2,3,4-Tetrachlorobenzene	0.582	0.353	39.388		

RF(50) - Response factor from daily standard file at concentration indicated
Avg RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CCC - Calibration Check Compounds (*)
SPCC - System Performance Check Compounds (**)
(1) - Cannot be seperated from diphenylamine


COMPUCHEM LABS
RIC
05/13/86 19:05:00
SAMPLE: 20 STD. #1855
CONDS.:
COMPUCHEM DATA: CU860513B19 SCANS 32 TO 720
261376.
100.0
405
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
RIC
496
448
613
347
184
241
278
315
365
160
48
76
117
547
659
686
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CU860513B19

DATA: CU860513B19.TI
05/13/86 19:05:00
SAMPLE: 20 STD. #1855
MDS.:
SUBMITTED BY: 19 ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

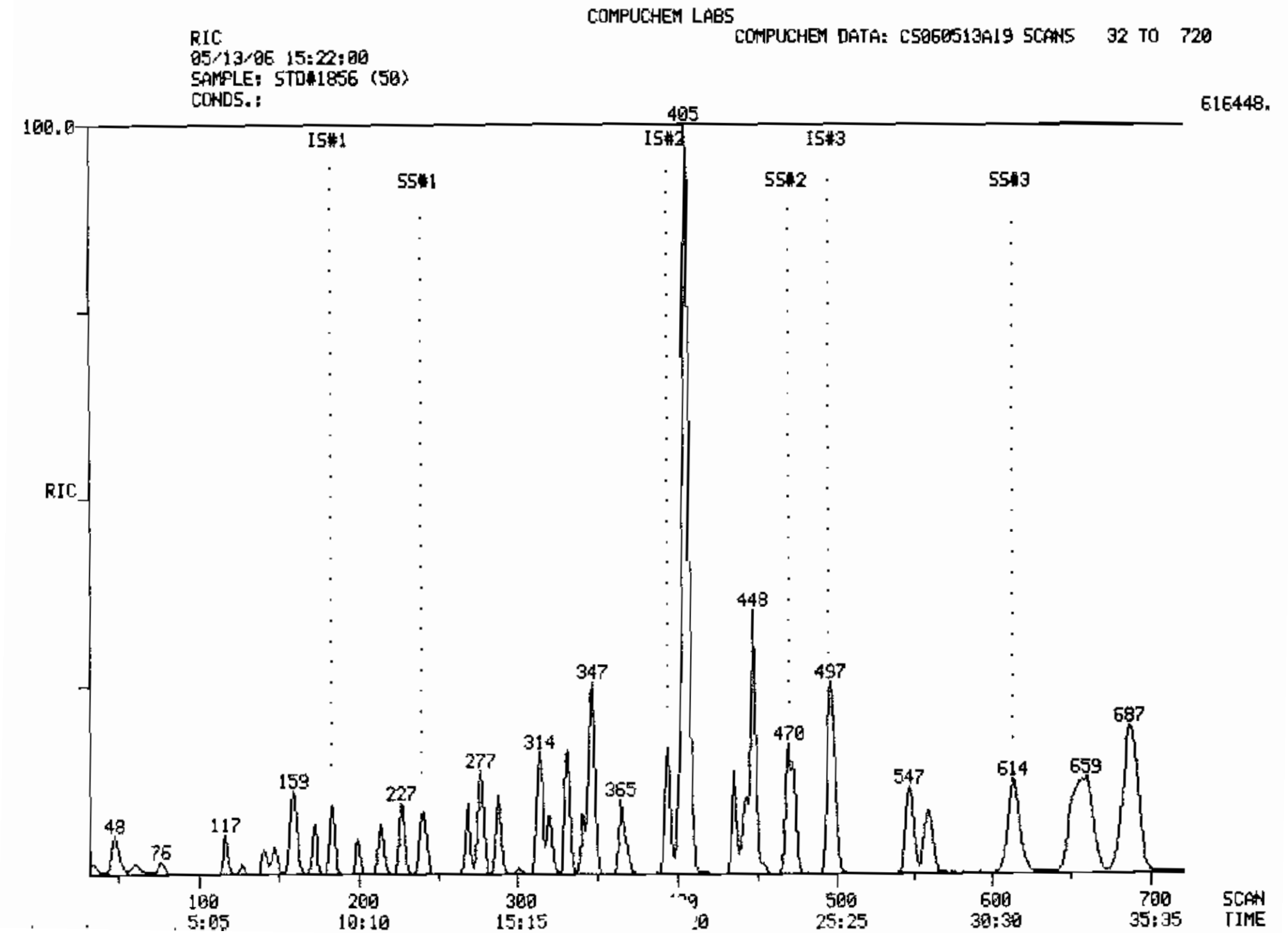
NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
19	212 BROMODICHLOROMETHANE <75-27-4> E2#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4
43	272 CROTONALDHYDE <4170-30-3> E9#1
44	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> E9#2
45	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> E9#3
46	245 1,2-DIBROMOETHANE <106-93-4> E9#4

NO	NAME
47	275 1,2,3-TRICHLOROPROPANE <96-18-4> E9#5
48	274 1,4-DICHLORO-2-BUTENE <764-71-0> E9#6
49	230 TRICHLOROFLUOROMETHANE <75-69-4> E9#10
0	201 ACROLEIN <107-02-8> E9#16
51	202 ACRYLONITRILE <107-13-1> E9#17

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BV	37666.	50.000 UG/L	2.67
2	50	34	1:44	1	0.185	A BB	18551.	42.792 UG/L	2.28
3	94	48	2:26	1	0.261	A BB	34742.	37.262 UG/L	1.99
4	62	61	3:06	1	0.332	A BB	20302.	41.996 UG/L	2.24
5	64	76	3:52	1	0.413	A BB	10740.	36.576 UG/L	1.95
6	84	118	6:00	1	0.641	A BB	13366.	23.626 UG/L	1.26
7	43	128	6:30	1	0.696	A BB	1960.	21.252 UG/L	1.13
8	76	149	7:34	1	0.810	A BV	20617.	16.176 UG/L	0.86
9	96	174	8:51	1	0.946	A BB	16264.	20.289 UG/L	1.08
10	63	201	10:13	1	1.092	A BB	17533.	19.646 UG/L	1.05
11	96	215	10:56	1	1.168	A BB	15514.	19.598 UG/L	1.04
12	83	228	11:35	1	1.239	A BB	32285.	18.850 UG/L	1.00
13	62	243	12:21	1	1.321	A BB	18848.	20.312 UG/L	1.08
14	114	394	20:02	14	1.000	A BB	163405.	50.000 UG/L	2.67
15	72	239	12:09	14	0.607	A BB	617.	16.470 UG/L	0.88
16	97	270	13:43	14	0.685	A BB	33248.	20.654 UG/L	1.10
17	117	278	14:08	14	0.706	A VB	42590.	20.378 UG/L	1.09
18	43	279	14:11	14	0.708	A BB	7934.	14.208 UG/L	0.76
19	83	289	14:41	14	0.734	A BB	30257.	19.151 UG/L	1.02
20	63	316	16:04	14	0.802	A BB	15201.	20.253 UG/L	1.08
21	75	321	16:19	14	0.815	A VB	20486.	19.234 UG/L	1.03
22	130	332	16:53	14	0.843	A BB	32815.	21.018 UG/L	1.12
3	129	346	17:35	14	0.878	A BB	36756.	19.550 UG/L	1.04
24	97	348	17:41	14	0.883	A BB	20590.	19.920 UG/L	1.06
25	78	342	17:23	14	0.868	A BB	37351.	20.674 UG/L	1.10
26	75	347	17:38	14	0.881	A VB	12841.	19.000 UG/L	1.01
27	63	369	18:45	14	0.937	A BB	6857.	20.075 UG/L	1.07
28	173	401	20:23	14	1.018	A BB	22852.	19.412 UG/L	1.03
29	117	495	25:10	29	1.000	A BV	167446.	50.000 UG/L	2.67
30	43	409	20:47	29	0.826	A BB	8805.	16.496 UG/L	0.88
31	43	441	22:25	29	0.891	A BB	6069.	16.807 UG/L	0.90
32	164	447	22:43	29	0.903	A BB	35387.	20.865 UG/L	1.11
33	83	448	22:46	29	0.905	A BV	28206.	20.371 UG/L	1.09
34	92	473	24:03	29	0.956	A BB	36195.	19.403 UG/L	1.03
35	112	498	25:19	29	1.006	A BB	63725.	19.835 UG/L	1.06
36	106	547	27:48	29	1.105	A BB	31582.	20.453 UG/L	1.09
37	104	652	33:09	29	1.317	A BB	60773.	16.806 UG/L	0.90
38	106	659	33:30	29	1.331	A BB	41607.	17.556 UG/L	0.94
39	106	685	34:49	29	1.384	A BB	81404.	34.167 UG/L	1.82
40	65	241	12:15	1	1.310	A BV	45307.	47.326 UG/L	2.52
41	95	613	31:10	29	1.238	A BB	144442.	46.115 UG/L	2.46
42	98	469	23:50	1	2.549	A BB	146339.	45.574 UG/L	2.43
43	70	301	15:18	14	0.764	A BB	3472.	315.292 UG/L	16.81
44	157	558	28:22	29	1.127	A BB	32144.	109.221 UG/L	5.82
45	131	405	20:35	14	1.028	A BV	158822.	91.215 UG/L	4.86
46	107	365	18:33	14	0.926	A BB	38633.	22.610 UG/L	1.21
47	110	442	22:28	14	1.122	A BB	12209.	24.453 UG/L	1.30
48	88	435	22:07	14	1.104	A BV	25534.	87.160 UG/L	4.65
49	101	160	8:08	1	0.870	A BB	51303.	19.081 UG/L	1.02

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
50	56	128	6:30	1	0.696	A BB	4661.	80.534	UG/L	4.29
51	53	142	7:13	1	0.772	A BB	15177.	46.089	UG/L	2.46

J	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38	1.06	10.000	0.02	42.79	50.00	0.493	0.575	0.86
3	2:20	1.04	10.000	0.03	37.26	50.00	0.922	1.238	0.75
4	3:00	1.03	10.000	0.03	42.00	50.00	0.539	0.642	0.84
5	3:49	1.01	10.000	0.04	36.58	50.00	0.285	0.390	0.73
6	5:57	1.01	5.000	0.13	23.63	50.00	0.355	0.751	0.47
7	6:27	1.01	10.000	0.07	21.25	50.00	0.052	0.122	0.43
8	7:31	1.01	5.000	0.16	16.18	50.00	0.547	1.692	0.32
9	8:48	1.01	5.000	0.19	20.29	50.00	0.432	1.064	0.41
10	10:10	1.01	5.000	0.22	19.65	50.00	0.465	1.185	0.39
11	10:53	1.00	5.000	0.23	19.60	50.00	0.412	1.051	0.39
12	11:35	1.00	5.000	0.25	18.85	50.00	0.857	2.274	0.38
13	12:18	1.00	5.000	0.26	20.31	50.00	0.500	1.232	0.41
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	12:09	1.00	10.000	0.06	16.47	50.00	0.004	0.011	0.33
16	13:40	1.00	5.000	0.14	20.65	50.00	0.203	0.493	0.41
17	14:05	1.00	5.000	0.14	20.38	50.00	0.261	0.640	0.41
18	14:11	1.00	10.000	0.07	14.21	50.00	0.049	0.171	0.28
19	14:38	1.00	5.000	0.15	19.15	50.00	0.185	0.483	0.38
20	16:01	1.00	5.000	0.16	20.25	50.00	0.093	0.230	0.41
21	16:19	1.00	5.000	0.16	19.23	50.00	0.125	0.326	0.38
22	16:53	1.00	5.000	0.17	21.02	50.00	0.201	0.478	0.42
23	17:35	1.00	5.000	0.18	19.55	50.00	0.225	0.575	0.39
24	17:38	1.00	5.000	0.18	19.92	50.00	0.126	0.316	0.40
?	17:20	1.00	5.000	0.17	20.67	50.00	0.229	0.553	0.41
a	17:38	1.00	5.000	0.18	19.00	50.00	0.079	0.207	0.38
27	18:45	1.00	10.000	0.09	20.07	50.00	0.042	0.105	0.40
28	20:23	1.00	5.000	0.20	19.41	50.00	0.140	0.360	0.39
29	25:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47	1.00	10.000	0.08	16.50	50.00	0.053	0.159	0.33
31	22:25	1.00	10.000	0.09	16.81	50.00	0.036	0.108	0.34
32	22:43	1.00	5.000	0.18	20.87	50.00	0.211	0.506	0.42
33	22:46	1.00	5.000	0.18	20.37	50.00	0.168	0.413	0.41
34	24:03	1.00	5.000	0.19	19.40	50.00	0.216	0.557	0.39
35	25:19	1.00	5.000	0.20	19.84	50.00	0.381	0.959	0.40
36	27:48	1.00	5.000	0.22	20.45	50.00	0.189	0.461	0.41
37	33:09	1.00	5.000	0.26	16.81	50.00	0.363	1.080	0.34
38	33:36	1.00	5.000	0.27	17.56	50.00	0.248	0.708	0.35
39	34:55	1.00	5.000	0.28	34.17	100.00	0.243	0.711	0.34
40	12:12	1.00	10.000	0.13	47.33	50.00	1.203	1.271	0.95
41	31:13	1.00	10.000	0.12	46.12	50.00	0.863	0.935	0.92
42	23:50	1.00	10.000	0.25	45.57	50.00	3.885	4.263	0.91
43	15:18	1.00	50.000	0.02	315.29	500.00	0.002	0.003	0.63
44	28:25	1.00	20.000	0.06	109.22	200.00	0.048	0.088	0.55
45	20:35	1.00	20.000	0.05	91.22	200.00	0.243	0.533	0.46
46	18:33	1.00	5.000	0.19	22.61	50.00	0.236	0.523	0.45
47	22:31	1.00	5.000	0.22	24.45	50.00	0.075	0.153	0.49
48	22:07	1.00	20.000	0.06	87.16	200.00	0.039	0.090	0.44
49	8:08	1.00	5.000	0.17	19.08	50.00	1.062	3.569	0.38
50	6:27	1.01	50.000	0.01	80.53	200.00	0.031	0.077	0.40
.	7:10	1.01	50.000	0.02	46.09	100.00	0.201	0.437	0.46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05/13/06 15:22:00
SAMPLE: STD#1856 (50)
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IS#3
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SS#2
SS#3
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76
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497
547
614
659
687
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

QUANTITATION REPORT FILE: CS860513A19

DATA: CS860513A19.TI
05/13/86 15:22:00
SAMPLE: STD#1856 (5D)
IDS. :
SUBMITTED BY: 19 ANALYST: 819

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

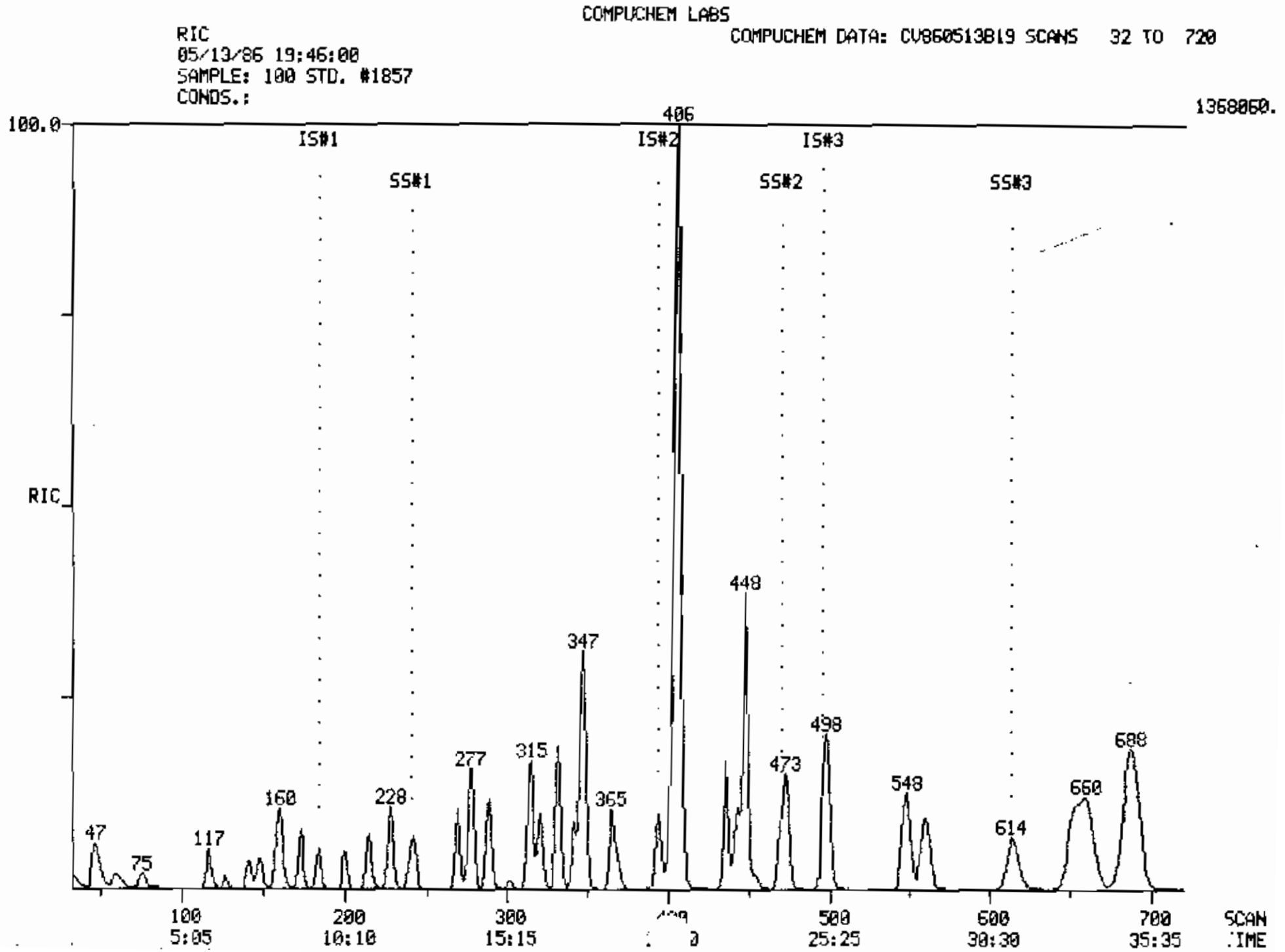
NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <75-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
19	212 BROMODICHLOROMETHANE <75-27-4> E2#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IE) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4
43	272 CROTONALDHYDE <4170-30-3> E9#1
44	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> E9#2
45	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> E9#3
46	245 1,2-DIBROMOETHANE <106-93-4> E9#4

NO	NAME
47	275 1,2,3-TRICHLOROPROPANE <96-18-4> E9#5
48	274 1,4-DICHLORO-2-BUTENE <764-71-0> E9#6
9	230 TRICHLOROFLUOROMETHANE <75-69-4> E9#10
0	201 ACROLEIN <107-02-8> E9#16
51	202 ACRYLONITRILE <107-13-1> E9#17

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	183	9:18	1	1.000	A BV	35490.	50.000 UG/L	1.45
2	50	33	1:41	1	0.180	A BB	23210.	56.822 UG/L	1.65
3	94	48	2:26	1	0.262	A BB	47491.	54.059 UG/L	1.57
4	62	60	3:03	1	0.328	A BB	23830.	52.317 UG/L	1.52
5	64	76	3:52	1	0.415	A BB	15446.	55.828 UG/L	1.62
6	84	117	5:57	1	0.639	A BV	26413.	49.551 UG/L	1.44
7	43	127	6:27	1	0.694	A BB	5391.	62.037 UG/L	1.80
8	76	147	7:28	1	0.803	A BV	59689.	49.704 UG/L	1.44
9	96	172	8:45	1	0.940	A BB	32644.	43.221 UG/L	1.25
10	63	200	10:10	1	1.093	A BB	37511.	44.608 UG/L	1.29
11	96	214	10:53	1	1.169	A BV	32929.	44.149 UG/L	1.28
12	83	227	11:32	1	1.240	A BV	71645.	44.395 UG/L	1.29
13	62	242	12:18	1	1.322	A BB	40280.	46.070 UG/L	1.34
14	114	394	20:02	14	1.000	A BB	161048.	50.000 UG/L	1.45
15	72	240	12:12	14	0.609	A BB	1609.	43.579 UG/L	1.26
16	97	269	13:40	14	0.683	A BB	69074.	43.538 UG/L	1.26
17	117	277	14:05	14	0.703	A VB	87451.	42.455 UG/L	1.23
18	43	279	14:11	14	0.708	A BB	25688.	46.673 UG/L	1.35
19	83	288	14:38	14	0.731	A BB	67612.	43.422 UG/L	1.26
20	63	315	16:01	14	0.799	A BB	32889.	44.461 UG/L	1.29
21	75	320	16:16	14	0.812	A VB	45124.	42.987 UG/L	1.25
2	130	331	16:50	14	0.840	A BB	69079.	44.894 UG/L	1.30
3	129	346	17:35	14	0.878	A BB	78505.	42.368 UG/L	1.23
24	97	347	17:38	14	0.881	A BB	45462.	44.627 UG/L	1.30
25	78	341	17:20	14	0.865	A BB	77218.	43.365 UG/L	1.26
26	75	347	17:38	14	0.881	A VB	28125.	42.223 UG/L	1.23
27	63	368	18:42	14	0.934	A BB	14222.	42.246 UG/L	1.23
28	173	401	20:23	14	1.018	A BB	47332.	40.795 UG/L	1.18
29	117	496	25:13	29	1.000	A BV	162218.	50.000 UG/L	1.45
30	43	409	20:47	29	0.825	A BB	23215.	44.896 UG/L	1.30
31	43	441	22:25	29	0.889	A BB	15465.	44.208 UG/L	1.28
32	164	447	22:43	29	0.901	A BB	71814.	43.709 UG/L	1.27
33	83	448	22:46	29	0.903	A BB	56264.	41.946 UG/L	1.22
34	92	473	24:03	29	0.954	A BB	80141.	44.345 UG/L	1.29
35	112	498	25:19	29	1.004	A BV	138717.	44.569 UG/L	1.29
36	106	547	27:48	29	1.103	A BV	66322.	44.335 UG/L	1.29
37	104	652	33:09	29	1.315	A BB	173219.	49.444 UG/L	1.44
38	106	661	33:36	29	1.333	A BB	115218.	50.184 UG/L	1.46
39	106	687	34:55	29	1.385	A BB	227809.	98.698 UG/L	2.86
40	65	240	12:12	1	1.311	A BB	43744.	48.495 UG/L	1.41
41	95	614	31:13	29	1.238	A BB	138507.	45.646 UG/L	1.32
42	98	469	23:50	1	2.563	A BV	143846.	47.544 UG/L	1.38
43	70	301	15:18	14	0.764	A BB	4326.	398.593 UG/L	11.57
44	157	559	28:25	29	1.127	A BB	51495.	180.612 UG/L	5.24
45	131	405	20:35	14	1.028	A BB	360767.	210.229 UG/L	6.10
46	107	365	18:33	14	0.926	A BV	82577.	49.036 UG/L	1.42
47	110	443	22:31	14	1.124	A BB	24134.	49.046 UG/L	1.42
3	88	436	22:10	14	1.107	A BB	53583.	185.582 UG/L	5.39
+9	101	159	8:05	1	0.869	A BB	133083.	52.532 UG/L	1.52

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
50	56	127	6:27	1	0.694	A BB	11313.	207.455 UG/L	6.02
51	53	141	7:10	1	0.770	A BB	32233.	103.886 UG/L	3.02

]	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38	1.03	10.000	0.02	56.82	50.00	0.654	0.575	1.14
3	2:20	1.04	10.000	0.03	54.06	50.00	1.338	1.238	1.08
4	3:00	1.02	10.000	0.03	52.32	50.00	0.671	0.642	1.05
5	3:49	1.01	10.000	0.04	55.83	50.00	0.435	0.390	1.12
6	5:57	1.00	5.000	0.13	49.55	50.00	0.744	0.751	0.99
7	6:27	1.00	10.000	0.07	62.04	50.00	0.152	0.122	1.24
8	7:31	0.99	5.000	0.16	49.70	50.00	1.682	1.692	0.99
9	8:48	0.99	5.000	0.19	43.22	50.00	0.920	1.064	0.86
10	10:10	1.00	5.000	0.22	44.61	50.00	1.057	1.185	0.89
11	10:53	1.00	5.000	0.23	44.15	50.00	0.928	1.051	0.88
12	11:35	1.00	5.000	0.25	44.39	50.00	2.019	2.274	0.89
13	12:18	1.00	5.000	0.26	46.07	50.00	1.135	1.232	0.92
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	12:09	1.00	10.000	0.06	43.58	50.00	0.010	0.011	0.87
16	13:40	1.00	5.000	0.14	43.54	50.00	0.429	0.493	0.87
17	14:05	1.00	5.000	0.14	42.45	50.00	0.543	0.640	0.85
18	14:11	1.00	10.000	0.07	46.67	50.00	0.160	0.171	0.93
19	14:38	1.00	5.000	0.15	43.42	50.00	0.420	0.483	0.87
20	16:01	1.00	5.000	0.16	44.46	50.00	0.204	0.230	0.89
21	16:19	1.00	5.000	0.16	42.99	50.00	0.280	0.326	0.86
22	16:53	1.00	5.000	0.17	44.89	50.00	0.429	0.478	0.90
23	17:35	1.00	5.000	0.18	42.37	50.00	0.487	0.575	0.85
24	17:38	1.00	5.000	0.18	44.63	50.00	0.282	0.316	0.89
5	17:20	1.00	5.000	0.17	43.37	50.00	0.479	0.553	0.87
,	17:38	1.00	5.000	0.18	42.22	50.00	0.175	0.207	0.84
27	18:45	1.00	10.000	0.09	42.25	50.00	0.088	0.105	0.84
28	20:23	1.00	5.000	0.20	40.79	50.00	0.294	0.360	0.82
29	25:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47	1.00	10.000	0.08	44.90	50.00	0.143	0.159	0.90
31	22:25	1.00	10.000	0.09	44.21	50.00	0.095	0.108	0.88
32	22:43	1.00	5.000	0.18	43.71	50.00	0.443	0.506	0.87
33	22:46	1.00	5.000	0.18	41.95	50.00	0.347	0.413	0.84
34	24:03	1.00	5.000	0.19	44.35	50.00	0.494	0.557	0.89
35	25:19	1.00	5.000	0.20	44.57	50.00	0.855	0.959	0.89
36	27:48	1.00	5.000	0.22	44.34	50.00	0.409	0.461	0.89
37	33:09	1.00	5.000	0.26	49.44	50.00	1.068	1.080	0.99
38	33:36	1.00	5.000	0.27	50.18	50.00	0.710	0.708	1.00
39	34:55	1.00	5.000	0.28	98.70	100.00	0.702	0.711	0.99
40	12:12	1.00	10.000	0.13	48.49	50.00	1.233	1.271	0.97
41	31:13	1.00	10.000	0.12	45.65	50.00	0.854	0.935	0.91
42	23:50	1.00	10.000	0.26	47.54	50.00	4.053	4.263	0.95
43	15:18	1.00	50.000	0.02	398.59	500.00	0.003	0.003	0.80
44	28:25	1.00	20.000	0.06	180.61	200.00	0.079	0.088	0.90
45	20:35	1.00	20.000	0.05	210.23	200.00	0.560	0.533	1.05
46	18:33	1.00	5.000	0.19	49.04	50.00	0.513	0.523	0.98
47	22:31	1.00	5.000	0.22	49.05	50.00	0.150	0.153	0.98
48	22:07	1.00	20.000	0.06	185.58	200.00	0.083	0.090	0.93
49	8:08	0.99	5.000	0.17	52.53	50.00	3.750	3.569	1.05
50	6:27	1.00	50.000	0.01	207.45	200.00	0.080	0.077	1.04
	7:10	1.00	50.000	0.02	103.89	100.00	0.454	0.437	1.04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SCAN
TIME

QUANTITATION

DATA: CV860513B19.TI
05/13/86 19:46:00
MPLE: 100 STD. #1857
NDS.:
SUBMITTED BY: 19 ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
7	212 BROMODICHLOROMETHANE <75-27-4> E2#6
0	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (TS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4
43	272 CROTONALDHYDE <4170-30-3> E9#1
44	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> E9#2
5	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> E9#3
46	245 1,2-DIBROMOETHANE <106-93-4> E9#4

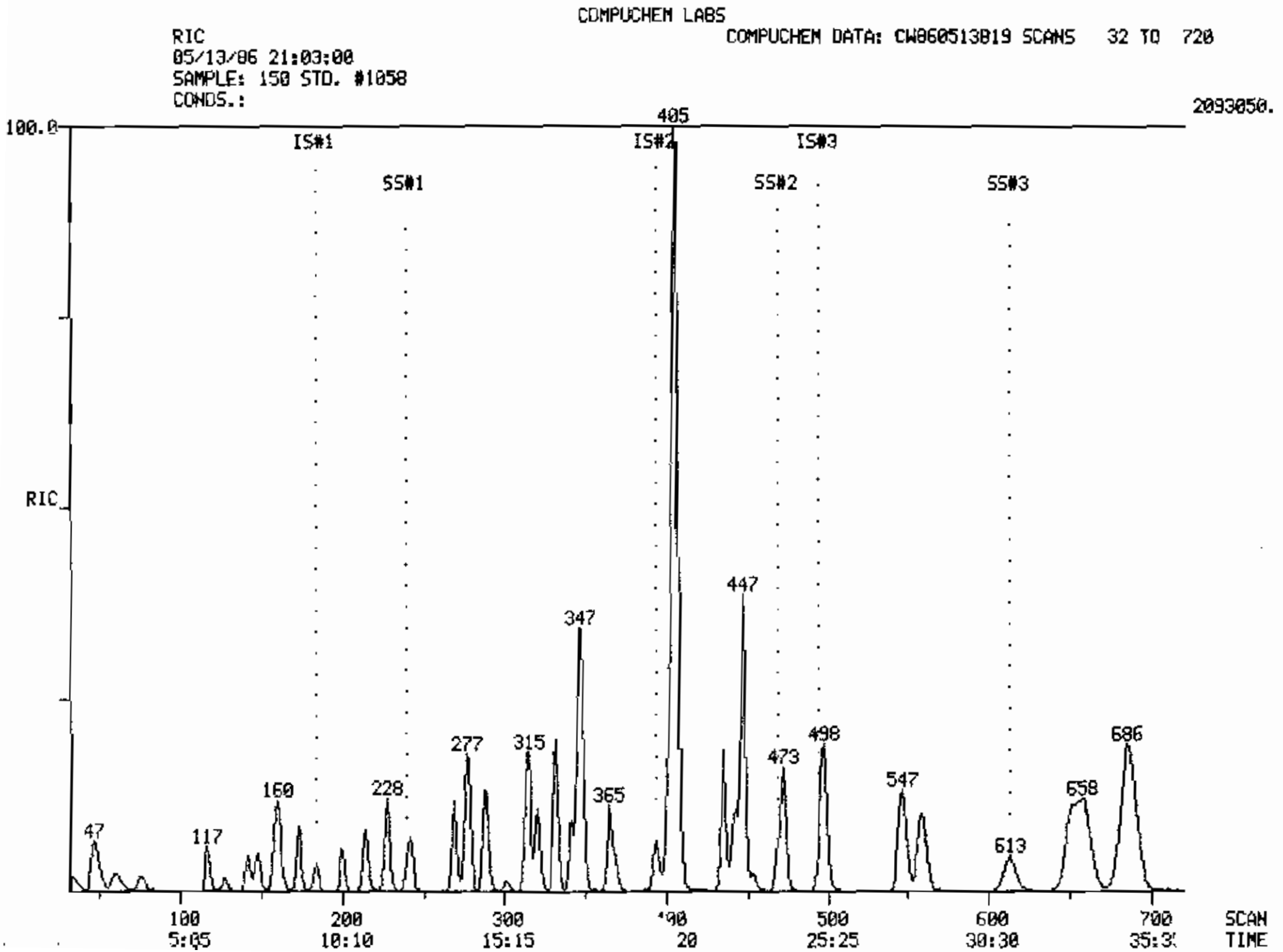
NO	NAME
47	275 1,2,3-TRICHLOROPROPANE <96-18-4> E9#5
48	274 1,4-DICHLORO-2-BUTENE <764-71-0> E9#6
9	230 TRICHLOROFLUOROMETHANE <75-69-4> E9#10
0	201 ACROLEIN <107-02-8> E9#16
51	202 ACRYLONITRILE <107-13-1> E9#17

DQ Hubbard 5/14/86

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BB	42844.	50.000 UG/L	0.71
2	50	32	1:38	1	0.174	A BB	80297.	162.838 UG/L	2.31
3	94	47	2:23	1	0.255	A BB	142021.	133.915 UG/L	1.90
4	62	60	3:03	1	0.326	A BV	82297.	149.663 UG/L	2.12
5	64	75	3:49	1	0.408	A BB	44777.	134.064 UG/L	1.90
6	84	117	5:57	1	0.636	A BV	65228.	101.365 UG/L	1.44
7	43	127	6:27	1	0.690	A BB	9349.	89.118 UG/L	1.26
8	76	147	7:28	1	0.799	A BV	153869.	106.137 UG/L	1.51
9	96	173	8:48	1	0.940	A BV	82489.	90.469 UG/L	1.28
10	63	200	10:10	1	1.087	A BB	94709.	93.296 UG/L	1.32
11	96	215	10:56	1	1.168	A BV	81585.	90.608 UG/L	1.28
12	83	228	11:35	1	1.239	A BV	181102.	92.958 UG/L	1.32
13	62	242	12:18	1	1.315	A BV	103909.	98.446 UG/L	1.40
14	114	394	20:02	14	1.000	A BV	196975.	50.000 UG/L	0.71
15	72	240	12:12	14	0.609	A BB	3982.	88.179 UG/L	1.25
16	97	269	13:40	14	0.683	A BV	178544.	92.011 UG/L	1.30
17	117	277	14:05	14	0.703	A VB	235410.	93.440 UG/L	1.33
18	43	279	14:11	14	0.708	A BB	61496.	91.354 UG/L	1.30
19	83	289	14:41	14	0.734	A BB	181408.	95.254 UG/L	1.35
20	63	316	16:04	14	0.802	A BB	81556.	90.143 UG/L	1.28
21	75	321	16:19	14	0.815	A VV	124496.	96.968 UG/L	1.38
2	130	332	16:53	14	0.843	A BV	163843.	87.058 UG/L	1.23
3	129	346	17:35	14	0.878	A BV	216653.	95.597 UG/L	1.36
24	97	348	17:41	14	0.883	A BB	114823.	92.156 UG/L	1.31
25	78	342	17:23	14	0.868	A BB	191086.	87.740 UG/L	1.24
26	75	347	17:38	14	0.881	A VB	86462.	106.127 UG/L	1.51
27	63	369	18:45	14	0.937	A BV	38244.	92.882 UG/L	1.32
28	173	401	20:23	14	1.018	A BV	136512.	96.198 UG/L	1.36
29	117	496	25:13	29	1.000	A BV	191575.	50.000 UG/L	0.71
30	43	409	20:47	29	0.825	A BB	53627.	87.817 UG/L	1.25
31	43	441	22:25	29	0.889	A BV	36319.	87.910 UG/L	1.25
32	164	448	22:46	29	0.903	A BV	163257.	84.138 UG/L	1.19
33	83	448	22:46	29	0.903	A BB	145007.	91.539 UG/L	1.30
34	92	473	24:03	29	0.954	A BB	195198.	91.459 UG/L	1.30
35	112	499	25:22	29	1.006	A BV	324666.	88.329 UG/L	1.25
36	106	547	27:48	29	1.103	A BV	156721.	88.712 UG/L	1.26
37	104	653	33:12	29	1.317	A BB	362154.	87.533 UG/L	1.24
38	106	661	33:36	29	1.333	A BB	236167.	87.102 UG/L	1.24
39	106	688	34:58	29	1.387	A BB	470230.	172.508 UG/L	2.45
40	65	240	12:12	1	1.304	A BV	56992.	52.337 UG/L	0.74
41	95	614	31:13	29	1.238	A BB	166143.	46.363 UG/L	0.66
42	98	470	23:53	1	2.554	A BV	174604.	47.804 UG/L	0.68
43	70	301	15:18	14	0.764	A BV	13620.	1026.020 UG/L	14.55
44	157	560	28:28	29	1.129	A BB	129792.	385.469 UG/L	5.47
45	131	406	20:38	14	1.030	A BB	804712.	383.399 UG/L	5.44
46	107	365	18:33	14	0.926	A BV	196781.	95.540 UG/L	1.35
47	110	443	22:31	14	1.124	A BB	54359.	90.320 UG/L	1.28
3	88	436	22:10	14	1.107	A BV	149947.	424.612 UG/L	6.02
49	101	160	8:08	1	0.870	A BB	306735.	100.295 UG/L	1.42

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
50	56	127	6:27	1	0.690	A BV	28175.	427.982	UG/L	6.07
51	53	141	7:10	1	0.766	A BB	77322.	206.429	UG/L	2.93

J	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38	1.00	10.000	0.02	162.84	50.00	1.874	0.575	3.26
3	2:20	1.02	10.000	0.03	133.91	50.00	3.315	1.238	2.68
4	3:00	1.02	10.000	0.03	149.66	50.00	1.921	0.642	2.99
5	3:49	1.00	10.000	0.04	134.06	50.00	1.045	0.390	2.68
6	5:57	1.00	5.000	0.13	101.36	50.00	1.522	0.751	2.03
7	6:27	1.00	10.000	0.07	89.12	50.00	0.218	0.122	1.78
8	7:31	0.99	5.000	0.16	106.14	50.00	3.591	1.692	2.12
9	8:48	1.00	5.000	0.19	90.47	50.00	1.925	1.064	1.81
10	10:10	1.00	5.000	0.22	93.30	50.00	2.211	1.185	1.87
11	10:53	1.00	5.000	0.23	90.61	50.00	1.904	1.051	1.81
12	11:35	1.00	5.000	0.25	92.96	50.00	4.227	2.274	1.86
13	12:18	1.00	5.000	0.26	98.45	50.00	2.425	1.232	1.97
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	12:09	1.00	10.000	0.06	88.18	50.00	0.020	0.011	1.76
16	13:40	1.00	5.000	0.14	92.01	50.00	0.906	0.493	1.84
17	14:05	1.00	5.000	0.14	93.44	50.00	1.195	0.640	1.87
18	14:11	1.00	10.000	0.07	91.35	50.00	0.312	0.171	1.83
19	14:38	1.00	5.000	0.15	95.25	50.00	0.921	0.483	1.91
20	16:01	1.00	5.000	0.16	90.14	50.00	0.414	0.230	1.80
21	16:19	1.00	5.000	0.16	96.97	50.00	0.632	0.326	1.94
22	16:53	1.00	5.000	0.17	87.06	50.00	0.832	0.478	1.74
23	17:35	1.00	5.000	0.18	95.60	50.00	1.100	0.575	1.91
24	17:38	1.00	5.000	0.18	92.16	50.00	0.583	0.316	1.84
25	17:20	1.00	5.000	0.17	87.74	50.00	0.970	0.553	1.75
26	17:38	1.00	5.000	0.18	106.13	50.00	0.439	0.207	2.12
27	18:45	1.00	10.000	0.09	92.88	50.00	0.194	0.105	1.86
28	20:23	1.00	5.000	0.20	96.20	50.00	0.693	0.360	1.92
29	25:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47	1.00	10.000	0.08	87.82	50.00	0.280	0.159	1.76
31	22:25	1.00	10.000	0.09	87.91	50.00	0.190	0.108	1.76
32	22:43	1.00	5.000	0.18	84.14	50.00	0.852	0.506	1.68
33	22:46	1.00	5.000	0.18	91.54	50.00	0.757	0.413	1.83
34	24:03	1.00	5.000	0.19	91.46	50.00	1.019	0.557	1.83
35	25:19	1.00	5.000	0.20	88.33	50.00	1.695	0.959	1.77
36	27:48	1.00	5.000	0.22	88.71	50.00	0.818	0.461	1.77
37	33:09	1.00	5.000	0.26	87.53	50.00	1.890	1.080	1.75
38	33:36	1.00	5.000	0.27	87.10	50.00	1.233	0.708	1.74
39	34:55	1.00	5.000	0.28	172.51	100.00	1.227	0.711	1.73
40	12:12	1.00	10.000	0.13	52.34	50.00	1.330	1.271	1.05
41	31:13	1.00	10.000	0.12	46.36	50.00	0.867	0.935	0.93
42	23:50	1.00	10.000	0.26	47.80	50.00	4.075	4.263	0.96
43	15:18	1.00	50.000	0.02	1026.02	500.00	0.007	0.003	2.05
44	28:25	1.00	20.000	0.06	385.47	200.00	0.169	0.088	1.93
45	20:35	1.00	20.000	0.05	383.40	200.00	1.021	0.533	1.92
46	18:33	1.00	5.000	0.19	95.54	50.00	0.999	0.523	1.91
47	22:31	1.00	5.000	0.22	90.32	50.00	0.276	0.153	1.81
48	22:07	1.00	20.000	0.06	424.61	200.00	0.190	0.090	2.12
49	8:08	1.00	5.000	0.17	100.30	50.00	7.159	3.569	2.01
50	6:27	1.00	50.000	0.01	427.98	200.00	0.164	0.077	2.14
51	7:10	1.00	50.000	0.02	206.43	100.00	0.902	0.437	2.06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05/13/86 21:03:00
SAMPLE: 150 STD. #1058
CONDS.:
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100.0
405
IS#1
IS#2
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SS#1
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SS#3
RIC
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117
160
228
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TIME

QUANTITATION REPI

DATA: CW860513B19.TI
05/13/86 21:03:00
1PLE: 150 STD. #1858
. .NDS. :
SUBMITTED BY: 19' ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

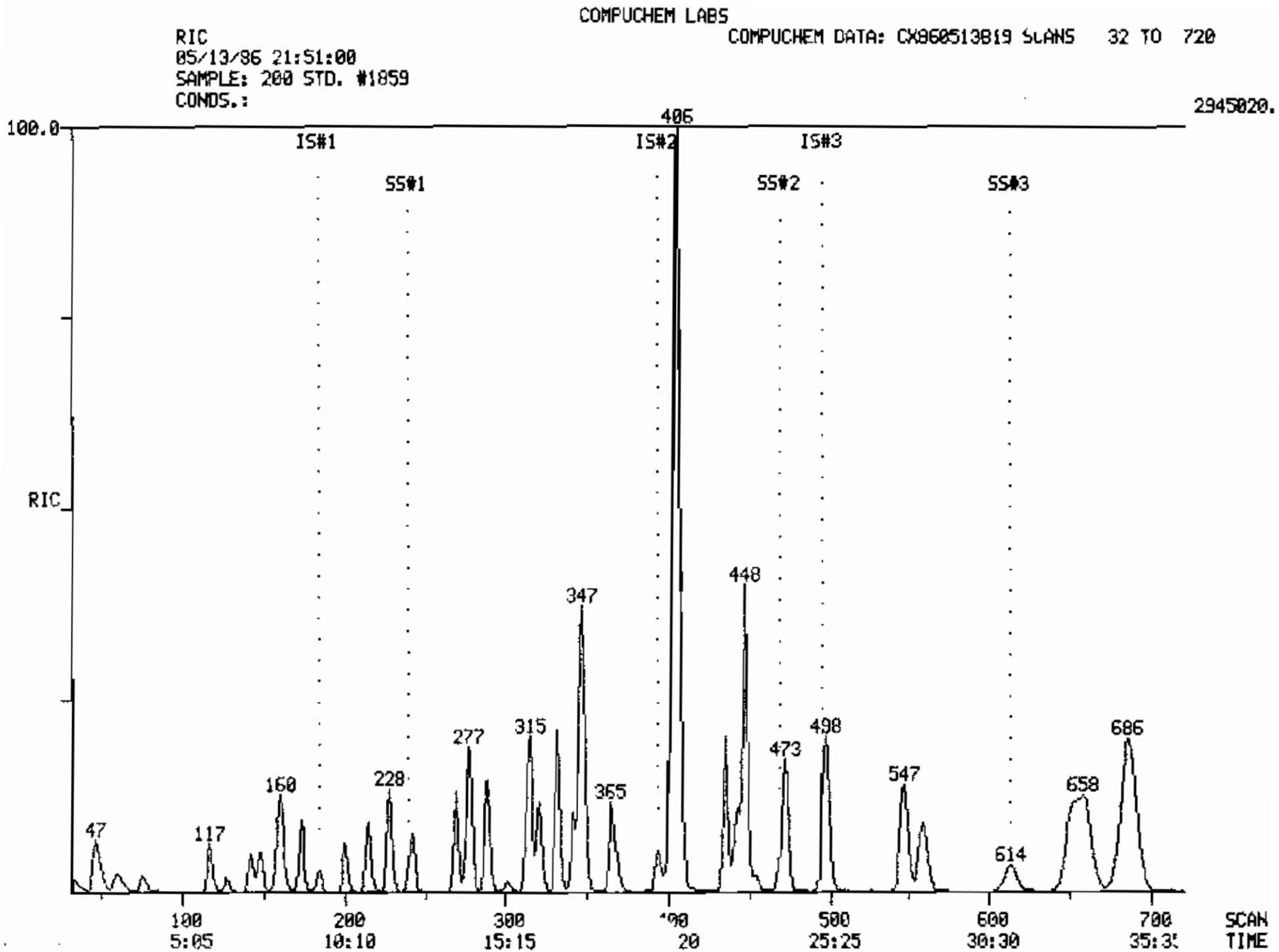
NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <10S-D5-4> E2#5
'	212 BROMODICHLOROMETHANE <75-27-4> E2#6
.0	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-OICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#259 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4
43	272 CROTONALDHYDE <4170-30-3> E9#1
44	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> E9#2
)	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> E9#3
46	245 1,2-DIBROMOETHANE <106-93-4> E9#4

NO	NAME
47	275 1,2,3-TRICHLOROPROPANE <96-18-4> E9#5
48	274 1,4-DICHLORO-2-BUTENE <764-71-0> E9#6
49	230 TRICHLOROFLUOROMETHANE <75-69-4> E9#10
50	201 ACROLEIN <107-02-8> E9#16
51	202 ACRYLONITRILE <107-13-1> E9#17

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
1	128	184	9:21	1	1.000	A BB	42844.	50.000	UG/L	0.43
2	50	32	1:38	1	0.174	A BB	134832.	273.431	UG/L	2.35
3	94	47	2:23	1	0.255	A BV	239044.	225.400	UG/L	1.94
4	62	60	3:03	1	0.326	A BV	148059.	269.257	UG/L	2.31
5	64	75	3:49	1	0.408	A BB	75936.	227.355	UG/L	1.95
6	84	117	5:57	1	0.636	A BV	108531.	168.658	UG/L	1.45
7	43	128	6:30	1	0.696	A BB	15588.	148.590	UG/L	1.28
8	76	148	7:31	1	0.804	A BB	287679.	198.438	UG/L	1.71
9	96	173	8:48	1	0.940	A BV	140670.	154.278	UG/L	1.33
10	63	200	10:10	1	1.087	A BB	165364.	162.897	UG/L	1.40
11	96	215	10:56	1	1.168	A BV	138987.	154.359	UG/L	1.33
12	83	228	11:35	1	1.239	A BV	313105.	160.714	UG/L	1.38
13	62	242	12:18	1	1.315	A BB	176864.	167.565	UG/L	1.44
14	114	394	20:02	14	1.000	A BV	196322.	50.000	UG/L	0.43
15	72	240	12:12	14	0.609	A BB	7328.	162.814	UG/L	1.40
16	97	269	13:40	14	0.683	A BV	310220.	160.401	UG/L	1.38
17	117	277	14:05	14	0.703	A VB	405462.	161.473	UG/L	1.39
18	43	279	14:11	14	0.708	A BV	99745.	148.667	UG/L	1.28
19	83	288	14:38	14	0.731	A BB	314128.	165.491	UG/L	1.42
20	63	315	16:01	14	0.799	A BB	134820.	149.511	UG/L	1.29
21	75	321	16:19	14	0.815	A VB	200077.	156.355	UG/L	1.34
22	130	332	16:53	14	0.843	A BV	256427.	136.706	UG/L	1.18
23	129	346	17:35	14	0.878	A BV	367141.	162.538	UG/L	1.40
24	97	348	17:41	14	0.883	A BB	184713.	148.742	UG/L	1.28
25	78	341	17:20	14	0.865	A BB	308057.	141.919	UG/L	1.22
26	75	347	17:38	14	0.881	A VB	152913.	188.317	UG/L	1.62
27	63	368	18:42	14	0.934	A BB	60441.	147.280	UG/L	1.27
28	173	401	20:23	14	1.018	A BV	238160.	168.386	UG/L	1.45
29	117	495	25:10	29	1.000	A BB	192250.	50.000	UG/L	0.43
30	43	409	20:47	29	0.826	A BB	82870.	135.227	UG/L	1.16
31	43	441	22:25	29	0.891	A BV	54934.	132.501	UG/L	1.14
32	164	447	22:43	29	0.903	A BV	254907.	130.910	UG/L	1.13
33	83	448	22:46	29	0.905	A VB	239969.	150.954	UG/L	1.30
34	92	473	24:03	29	0.956	A BV	298424.	139.334	UG/L	1.20
35	112	498	25:19	29	1.006	A BV	497058.	134.756	UG/L	1.16
36	106	547	27:48	29	1.105	A BV	240042.	135.398	UG/L	1.16
37	104	651	33:06	29	1.315	A BB	561847.	135.323	UG/L	1.16
38	106	660	33:33	29	1.333	A BB	361815.	132.974	UG/L	1.14
39	106	686	34:52	29	1.386	A BB	718047.	262.497	UG/L	2.26
40	65	240	12:12	1	1.304	A BB	66596.	61.156	UG/L	0.53
41	95	613	31:10	29	1.238	A BB	176428.	49.060	UG/L	0.42
42	98	469	23:50	1	2.549	A BV	176484.	48.319	UG/L	0.42
43	70	301	15:18	14	0.764	A BV	23436.	1771.410	UG/L	15.23
44	157	559	28:25	29	1.129	A BB	204726.	605.880	UG/L	5.21
45	131	405	20:35	14	1.028	A BB	1225850.	585.992	UG/L	5.04
46	107	365	18:33	14	0.926	A BV	313755.	152.840	UG/L	1.31
47	110	443	22:31	14	1.124	A BV	84576.	140.995	UG/L	1.21
48	88	435	22:07	14	1.104	A BB	261637.	743.354	UG/L	6.39
49	101	160	8:08	1	0.870	A BV	517796.	169.307	UG/L	1.46

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
50	56	127	6:27	1	0.690	A BV	50872.	772.752	UG/L	6.64
51	53	142	7:13	1	0.772	A BV	143825.	383.977	UG/L	3.30

..0	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38	1.00	10.000	0.02	273.43	50.00	3.147	0.575	5.47
3	2:20	1.02	10.000	0.03	225.40	50.00	5.579	1.238	4.51
4	3:00	1.02	10.000	0.03	269.26	50.00	3.456	0.642	5.39
5	3:49	1.00	10.000	0.04	227.35	50.00	1.772	0.390	4.55
6	5:57	1.00	5.000	0.13	168.66	50.00	2.533	0.751	3.37
7	6:27	1.01	10.000	0.07	148.59	50.00	0.364	0.122	2.97
8	7:31	1.00	5.000	0.16	198.44	50.00	6.715	1.692	3.97
9	8:48	1.00	5.000	0.19	154.28	50.00	3.283	1.064	3.09
10	10:10	1.00	5.000	0.22	162.90	50.00	3.860	1.185	3.26
11	10:53	1.00	5.000	0.23	154.36	50.00	3.244	1.051	3.09
12	11:35	1.00	5.000	0.25	160.71	50.00	7.308	2.274	3.21
13	12:18	1.00	5.000	0.26	167.57	50.00	4.128	1.232	3.35
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	12:09	1.00	10.000	0.06	162.E1	50.00	0.037	0.011	3.26
16	13:40	1.00	5.000	0.14	160.40	50.00	1.580	0.493	3.21
17	14:05	1.00	5.000	0.14	161.47	50.00	2.065	0.640	3.23
18	14:11	1.00	10.000	0.07	148.67	50.00	0.508	0.171	2.97
19	14:38	1.00	5.000	0.15	165.49	50.00	1.600	0.483	3.31
20	16:01	1.00	5.000	0.16	149.51	50.00	0.687	0.230	2.99
21	16:19	1.00	5.000	0.16	156.36	50.00	1.019	0.326	3.13
22	16:53	1.00	5.000	0.17	136.71	50.00	1.306	0.478	2.73
23	17:35	1.00	5.000	0.18	162.54	50.00	1.870	0.575	3.25
24	17:38	1.00	5.000	0.18	148.74	50.00	0.941	0.316	2.97
1	17:20	1.00	5.000	0.17	141.92	50.00	1.569	0.553	2.84
26	17:38	1.00	5.000	0.18	188.32	50.00	0.779	0.207	3.77
27	18:45	1.00	10.000	0.09	147.28	50.00	0.308	0.105	2.95
28	20:23	1.00	5.000	0.20	168.39	50.00	1.213	0.360	3.37
29	25:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47	1.00	10.000	0.08	135.23	50.00	0.431	0.159	2.70
31	22:25	1.00	10.000	0.09	132.50	50.00	0.286	0.108	2.65
32	22:43	1.00	5.000	0.18	130.91	50.00	1.326	0.506	2.62
33	22:46	1.00	5.000	0.18	150.95	50.00	1.248	0.413	3.02
34	24:03	1.00	5.000	0.19	139.33	50.00	1.552	0.557	2.79
35	25:19	1.00	5.000	0.20	134.76	50.00	2.585	0.959	2.70
36	27:48	1.00	5.000	0.22	135.40	50.00	1.249	0.461	2.71
37	33:09	1.00	5.000	0.26	135.32	50.00	2.922	1.080	2.71
38	33:36	1.00	5.000	0.27	132.97	50.00	1.882	0.708	2.66
39	34:55	1.00	5.000	0.28	262.50	100.00	1.867	0.711	2.62
40	12:12	1.00	10.000	0.13	61.16	50.00	1.354	1.271	1.22
41	31:13	1.00	10.000	0.12	49.06	50.00	0.918	0.935	0.98
42	23:50	1.00	10.000	0.25	48.32	50.00	4.119	4.263	0.97
43	15:18	1.00	50.000	0.02	1771.42	500.00	0.012	0 003	3.54
44	28:25	1.00	20.000	0.06	605.88	200.00	0.266	0.088	3.03
45	20:35	1.00	20.000	0.05	585.99	200.00	1.561	0.533	2.93
46	18:33	1.00	5.000	0.19	152.84	50.00	1.598	0.523	3.06
47	22:31	1.00	5.000	0.22	140.99	50.00	0.431	0.153	2.82
48	22:07	1.00	20.000	0.06	743.35	200.00	0.333	0.090	3.72
49	8:08	1.00	5.000	0.17	169.31	50.00	12.086	3.569	3.39
50	6:27	1.00	50.000	0.01	772.75	200.00	0.297	0.077	3.86
	7:10	1.01	50.000	0.02	383.98	100.00	1.678	0.437	3.84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SCAN
TIME

QUANTITATION REPORT FILE: CX860513B19

DATA: CX860513B19.TI
05/13/86 21:51:00
PLE: 200 STD. #1859
NDS.:
SUBMITTED BY: 19 ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
	212 BROMODICHLOROMETHANE <75-27-4> E2#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4
43	272 CROTONALDHYDE <4170-30-3> E9#1
44	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> E9#2
	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> E9#3
46	245 1,2-DIBROMOETHANE <106-93-4> E9#4

NO	NAME
47	275 1,2,3-TRICHLOROPROPANE <96-18-4> E9#5
9	274 1,4-DICHLORO-2-BUTENE <764-71-0> E9#6
)	230 TRICHLOROFLUOROMETHANE <75-69-4> E9#10
50	201 ACROLEIN <107-02-8> E9#16
51	202 ACRYLONITRILE <107-13-1> E9#17

Scan Verified 5/14/86

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BB	49937.	50.000 UG/L	0.32
2	50	32	1:38	1	0.174	A BB	183118.	318.606 UG/L	2.04
3	94	47	2:23	1	0.255	A BB	329272.	266.378 UG/L	1.71
4	62	60	3:03	1	0.326	A BV	212669.	331.821 UG/L	2.13
5	64	75	3:49	1	0.408	A BB	105714.	271.552 UG/L	1.74
6	84	117	5:57	1	0.636	A BV	170486.	227.306 UG/L	1.46
7	43	128	6:30	1	0.696	A BB	24397.	199.528 UG/L	1.28
8	76	147	7:28	1	0.799	A BB	444006.	262.767 UG/L	1.68
9	96	173	8:48	1	0.940	A BV	213032.	200.455 UG/L	1.28
10	63	200	10:10	1	1.087	A BB	267217.	225.842 UG/L	1.45
11	96	215	10:56	1	1.168	A BB	216492.	206.285 UG/L	1.32
12	83	228	11:35	1	1.239	A BV	504209.	222.045 UG/L	1.42
13	62	242	12:18	1	1.315	A BB	290360.	236.020 UG/L	1.51
14	114	394	20:02	14	1.000	A BV	215415.	50.000 UG/L	0.32
15	72	240	12:12	14	0.609	A BB	11762.	238.166 UG/L	1.53
16	97	269	13:40	14	0.683	A BV	482020.	227.141 UG/L	1.46
17	117	277	14:05	14	0.703	A VV	605224.	219.664 UG/L	1.41
18	43	279	14:11	14	0.708	A BV	150237.	204.077 UG/L	1.31
19	83	288	14:38	14	0.731	A BB	506638.	243.254 UG/L	1.56
20	63	316	16:04	14	0.802	A VV	218623.	220.957 UG/L	1.42
1	75	321	16:19	14	0.815	A VV	325586.	231.885 UG/L	1.49
!	130	332	16:53	14	0.843	A BV	371707.	180.600 UG/L	1.16
23	129	346	17:35	14	0.878	A BV	557895.	225.096 UG/L	1.44
24	97	348	17:41	14	0.883	A BB	283507.	208.063 UG/L	1.33
25	78	341	17:20	14	0.865	A BB	486803.	204.388 UG/L	1.31
26	75	347	17:38	14	0.881	A VB	254895.	286.088 UG/L	1.83
27	63	369	18:45	14	0.937	A BB	97552.	216.641 UG/L	1.39
28	173	401	20:23	14	1.018	A BV	343230.	221.165 UG/L	1.42
29	117	495	25:10	29	1.000	A BB	209630.	50.000 UG/L	0.32
30	43	409	20:47	29	0.826	A BB	126453.	189.238 UG/L	1.21
31	43	441	22:25	29	0.891	A BV	83243.	184.137 UG/L	1.18
32	164	447	22:43	29	0.903	A BV	358494.	168.844 UG/L	1.08
33	83	448	22:46	29	0.905	A VB	345338.	199.226 UG/L	1.28
34	92	473	24:03	29	0.956	A BV	449336.	192.401 UG/L	1.23
35	112	498	25:19	29	1.006	A BV	734247.	182.555 UG/L	1.17
36	106	547	27:48	29	1.105	A BV	349166.	180.621 UG/L	1.16
37	104	651	33:06	29	1.315	A BB	808162.	178.511 UG/L	1.14
38	106	660	33:33	29	1.333	A BB	512048.	172.585 UG/L	1.11
39	106	686	34:52	29	1.386	A BB	1027320.	344.421 UG/L	2.21
40	65	240	12:12	1	1.304	A BV	83082.	65.459 UG/L	0.42
41	95	613	31:10	29	1.238	A BB	190360.	48.545 UG/L	0.31
42	98	469	23:50	1	2.549	A BV	196773.	46.222 UG/L	0.30
43	70	301	15:18	14	0.764	A BB	38097.	2624.310 UG/L	16.82
44	157	559	28:25	29	1.129	A BV	242577.	658.379 UG/L	4.22
45	131	405	20:35	14	1.028	A BV	1674360.	729.452 UG/L	4.67
46	107	365	18:33	14	0.926	A BB	479551.	212.899 UG/L	1.36
7	110	443	22:31	14	1.124	A BV	120266.	182.723 UG/L	1.17
.8	88	435	22:07	14	1.104	A BB	410190.	1062.120 UG/L	6.81
49	101	160	8:08	1	0.870	A BV	775501.	217.554 UG/L	1.39

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
50	56	127	6:27	1	0.690	A BV	78568.	1023.940	UG/L	6.56
51	53	142	7:13	1	0.772	A BB	216986.	497.017	UG/L	3.18

.0	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38	1.00	10.000	0.02	318.61	50.00	3.667	0.575	6.37
3	2:20	1.02	10.000	0.03	266.38	50.00	6.594	1.238	5.33
4	3:00	1.02	10.000	0.03	331.82	50.00	4.259	0.642	6.64
5	3:49	1.00	10.000	0.04	271.55	50.00	2.117	0.390	5.43
6	5:57	1.00	5.000	0.13	227.31	50.00	3.414	0.751	4.55
7	6:27	1.01	10.000	0.07	199.53	50.00	0.489	0.122	3.99
8	7:31	0.99	5.000	0.16	262.77	50.00	8.891	1.692	5.26
9	8:48	1.00	5.000	0.19	200.45	50.00	4.266	1.064	4.01
10	10:10	1.00	5.000	0.22	225.84	50.00	5.351	1.185	4.52
11	10:53	1.00	5.000	0.23	206.28	50.00	4.335	1.051	4.13
12	11:35	1.00	5.000	0.25	222.05	50.00	10.097	2.274	4.44
13	12:18	1.00	5.000	0.26	236.02	50.00	5.815	1.232	4.72
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	12:09	1.00	10.000	0.06	238.17	50.00	0.055	0.011	4.76
16	13:40	1.00	5.000	0.14	227.14	50.00	2.238	0.493	4.54
17	14:05	1.00	5.000	0.14	219.66	50.00	2.810	0.640	4.39
18	14:11	1.00	10.000	0.07	204.08	50.00	0.697	0.171	4.08
19	14:38	1.00	5.000	0.15	243.25	50.00	2.352	0.483	4.87
20	16:01	1.00	5.000	0.16	220.96	50.00	1.015	0.230	4.42
21	16:19	1.00	5.000	0.16	231.88	50.00	1.511	0.326	4.64
22	16:53	1.00	5.000	0.17	180.60	50.00	1.726	0.478	3.61
23	17:35	1.00	5.000	0.18	225.10	50.00	2.590	0.575	4.50
24	17:38	1.00	5.000	0.18	208.06	50.00	1.316	0.316	4.16
\	17:20	1.00	5.000	0.17	204.39	50.00	2.260	0.553	4.09
_6	17:38	1.00	5.000	0.18	286.09	50.00	1.183	0.207	5.72
27	18:45	1.00	10.000	0.09	216.64	50.00	0.453	0.105	4.33
28	20:23	1.00	5.000	0.20	221.17	50.00	1.593	0.360	4.42
29	25:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47	1.00	10.000	0.08	189.24	50.00	0.603	0.159	3.78
31	22:25	1.00	10.000	0.09	184.14	50.00	0.397	0.108	3.68
32	22:43	1.00	5.000	0.18	168.84	50.00	1.710	0.506	3.38
33	22:46	1.00	5.000	0.18	199.23	50.00	1.647	0.413	3.98
34	24:03	1.00	5.000	0.19	192.40	50.00	2.143	0.557	3.85
35	25:19	1.00	5.000	0.20	182.56	50.00	3.503	0.959	3.65
36	27:48	1.00	5.000	0.22	180.62	50.00	1.666	0.461	3.61
37	33:09	1.00	5.000	0.26	178.51	50.00	3.855	1.080	3.57
38	33:36	1.00	5.000	0.27	172.58	50.00	2.443	0.708	3.45
39	34:55	1.00	5.000	0.28	344.42	100.00	2.450	0.711	3.44
40	12:12	1.00	10.000	0.13	65.46	50.00	1.664	1.271	1.31
41	31:13	1.00	10.000	0.12	48.55	50.00	0.908	0.935	0.97
42	23:50	1.00	10.000	0.25	46.22	50.00	3.940	4.263	0.92
43	15:18	1.00	50.000	0.02	2624.31	500.00	0.018	0.003	5.25
44	28:25	1.00	20.000	0.06	658.38	200.00	0.289	0.088	3.29
45	20:35	1.00	20.000	0.05	729.45	200.00	1.943	0.533	3.65
46	18:33	1.00	5.000	0.19	212.90	50.00	2.226	0.523	4.26
47	22:31	1.00	5.000	0.22	182.72	50.00	0.558	0.153	3.65
48	22:07	1.00	20.000	0.06	1062.12	200.00	0.476	0.090	5.31
49	8:08	1.00	5.000	0.17	217.55	50.00	15.530	3.569	4.35
50	6:27	1.00	50.000	0.01	1023.94	200.00	0.393	0.077	5.12
.	7:10	1.01	50.000	0.02	497.02	100.00	2.173	0.437	4.97

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 15:03 Shift(s) (A) ✓ (B) ___ (C) ___
Time Tune Expires 21:03 Date 5/13-14
Analysis Type CLP3

Run Log

	RECORD	File Name	UPDATED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #s, Disposition, Etc
1		AF8605119		5/13/86	15:03			2 ul	819		3017	17722
2	X	[illegible]119		/ /	15:22			5ul	819		✓	std #1856 (50)
3	X	CB860513 B19		/ /	16:04			5ml	941			
4	X	CS860513 B19		/ /	16:49			5ml	941			50 → STD #1856
5	X	CT860513 B19		/ /	18:02			5ml	941			NEW 1301
6		CU860513 B19		/ /	19:05			5ml	941		✓	20 STD #1855
7		CV860513 B19		/ /	19:46			5ml	941		✓	100 STD #1857
8		CW860513 B19		/ /	21:03			5ml	941	50✓	✓	150 STD #1858
9		CX860513 B19		/ /	21:51			5ml	941		✓	200 STD #1859
10	X	CC860513 B19		/ /	23:34	blank		5ml	941			
11	X	CB860513 B19		5/14/86	0:16	blank		5ml	891			
12	X	CE860513 B19		/ /	1:18	blank		5ml	891			
13		CF860513 B19		/ /	2:25	blank		5ml	891			
14				/ /	:							
15				/ /	:							
16				/ /	:							
17				/ /	:							
18				/ /	:							
19				/ /	:							
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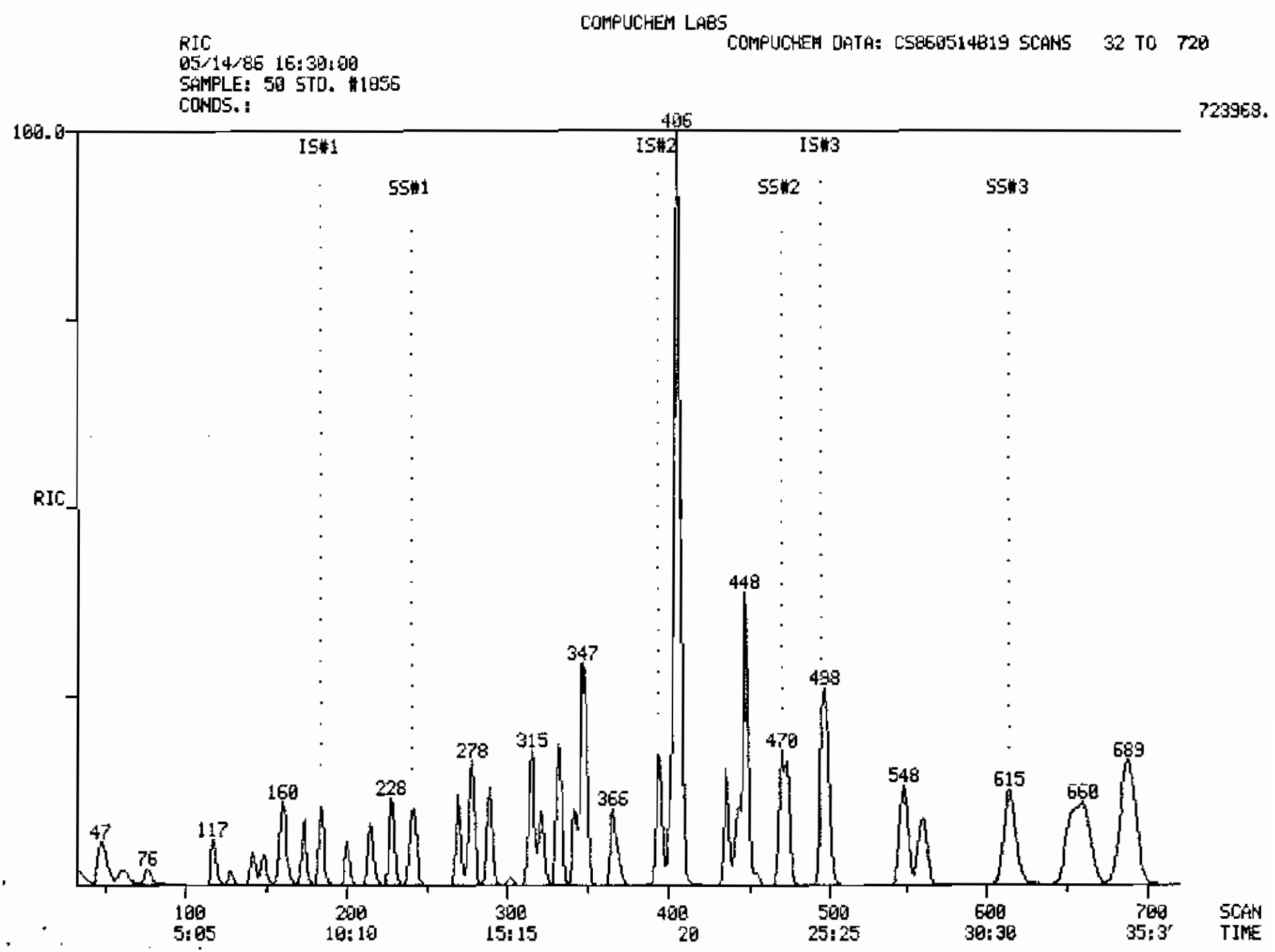
Press . Multiple Copies

Brian Bousfield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689
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35:3'
SCAN
TIME

QUANTITATION REPORT FILE: CS860514B19

DATA: CS860514B19.TI
05/14/86 16:30:00
MPLE: 50 STD. #1856
UNDS.:
SUBMITTED BY: 19 ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	#248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
9	212 BROMODICHLOROMETHANE <75-27-4> E2#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLORDPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4

5/15/86

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BB	46117.	50.000 UG/L	2.33
2	50	33	1:41	1	0.179	A BB	44773.	50.000 UG/L	2.33

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	47	2:23	1	0.255	A BB	79744.	50.000 UG/L	2.33
4	62	60	3:03	1	0.326	A BV	49761.	50.000 UG/L	2.33
5	64	76	3:52	1	0.413	A BB	26838.	50.000 UG/L	2.33
6	84	117	5:57	1	0.636	A BB	41619.	50.000 UG/L	2.33
7	43	128	6:30	1	0.696	A BB	6031.	50.000 UG/L	2.33
8	76	148	7:31	1	0.804	A BB	84226.	50.000 UG/L	2.33
9	96	174	8:51	1	0.946	A BV	51346.	50.000 UG/L	2.33
10	63	201	10:13	1	1.092	A BV	59483.	50.000 UG/L	2.33
11	96	215	10:56	1	1.168	A BV	51043.	50.000 UG/L	2.33
12	83	228	11:35	1	1.239	A BB	109496.	50.000 UG/L	2.33
13	62	243	12:21	1	1.321	A BB	66138.	50.000 UG/L	2.33
14	114	394	20:02	14	1.000	A BV	198683.	50.000 UG/L	2.33
15	72	240	12:12	14	0.609	A BB	2416.	50.000 UG/L	2.33
16	97	270	13:43	14	0.685	A BV	104964.	50.000 UG/L	2.33
17	117	278	14:08	14	0.706	A VB	126544.	50.000 UG/L	2.33
18	43	280	14:14	14	0.711	A BB	30964.	50.000 UG/L	2.33
19	83	289	14:41	14	0.734	A BV	103008.	50.000 UG/L	2.33
20	63	316	16:04	14	0.802	A BB	44887.	50.000 UG/L	2.33
21	75	321	16:19	14	0.815	A VV	64269.	50.000 UG/L	2.33
22	130	332	16:53	14	0.843	A BV	87729.	50.000 UG/L	2.33
23	129	346	17:35	14	0.878	A BB	106304.	50.000 UG/L	2.33
24	97	348	17:41	14	0.883	A BB	60832.	50.000 UG/L	2.33
25	78	342	17:23	14	0.868	A BB	112518.	50.000 UG/L	2.33
26	75	348	17:41	14	0.883	A VB	45288.	50.000 UG/L	2.33
27	63	369	18:45	14	0.937	A BB	20718.	50.000 UG/L	2.33
28	173	402	20:26	14	1.020	A BV	66507.	50.000 UG/L	2.33
29	117	496	25:13	29	1.000	A BV	189582.	50.000 UG/L	2.33
30	43	410	20:50	29	0.827	A BB	26844.	50.000 UG/L	2.33
31	43	441	22:25	29	0.889	A BB	17164.	50.000 UG/L	2.33
32	164	448	22:46	29	0.903	A BV	88780.	50.000 UG/L	2.33
33	83	449	22:49	29	0.905	A BB	80072.	50.000 UG/L	2.33
34	92	474	24:06	29	0.956	A BB	105380.	50.000 UG/L	2.33
35	112	499	25:22	29	1.006	A BV	169526.	50.000 UG/L	2.33
36	106	548	27:51	29	1.105	A BV	85644.	50.000 UG/L	2.33
37	104	653	33:12	29	1.317	A BB	172046.	50.000 UG/L	2.33
38	106	661	33:36	29	1.333	A BB	113192.	50.000 UG/L	2.33
39	106	688	34:58	29	1.387	A BB	218330.	99.999 UG/L	4.65
40	65	241	12:15	1	1.310	A BB	67571.	50.000 UG/L	2.33
41	95	615	31:16	29	1.240	A BB	167400.	50.000 UG/L	2.33
42	98	470	23:53	1	2.554	A BV	175194.	50.000 UG/L	2.33

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41	1.00	10.000	0.02	50.00	50.00	0.971	0.971	1.00
3	2:23	1.00	10.000	0.03	50.00	50.00	1.729	1.729	1.00
4	3:03	1.00	10.000	0.03	50.00	50.00	1.079	1.079	1.00
5	3:52	1.00	10.000	0.04	50.00	50.00	0.582	0.582	1.00
6	5:57	1.00	5.000	0.13	50.00	50.00	0.902	0.902	1.00
7	6:30	1.00	10.000	0.07	50.00	50.00	0.131	0.131	1.00
8	7:31	1.00	5.000	0.16	50.00	50.00	1.826	1.826	1.00
9	8:51	1.00	5.000	0.19	50.00	50.00	1.113	1.113	1.00
10	10:13	1.00	5.000	0.22	50.00	50.00	1.290	1.290	1.00
11	10:56	1.00	5.000	0.23	50.00	50.00	1.107	1.107	1.00
12	11:35	1.00	5.000	0.25	50.00	50.00	2.374	2.374	1.00
13	12:21	1.00	5.000	0.26	50.00	50.00	1.434	1.434	1.00
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:12	1.00	10.000	0.06	50.00	50.00	0.012	0.012	1.00
16	13:43	1.00	5.000	0.14	50.00	50.00	0.528	0.528	1.00
17	14:08	1.00	5.000	0.14	50.00	50.00	0.637	0.637	1.00
18	14:14	1.00	10.000	0.07	50.00	50.00	0.156	0.156	1.00
19	14:41	1.00	5.000	0.15	50.00	50.00	0.518	0.518	1.00
20	16:04	1.00	5.000	0.16	50.00	50.00	0.226	0.226	1.00
21	16:19	1.00	5.000	0.16	50.00	50.00	0.323	0.323	1.00
22	16:53	1.00	5.000	0.17	50.00	50.00	0.442	0.442	1.00
23	17:35	1.00	5.000	0.18	50.00	50.00	0.535	0.535	1.00
24	17:41	1.00	5.000	0.18	50.00	50.00	0.306	0.306	1.00
25	17:23	1.00	5.000	0.17	50.00	50.00	0.566	0.566	1.00
26	17:41	1.00	5.000	0.18	50.00	50.00	0.228	0.228	1.00
27	18:45	1.00	10.000	0.09	50.00	50.00	0.104	0.104	1.00
28	20:26	1.00	5.000	0.20	50.00	50.00	0.335	0.335	1.00
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:50	1.00	10.000	0.08	50.00	50.00	0.142	0.142	1.00
31	22:25	1.00	10.000	0.09	50.00	50.00	0.091	0.091	1.00
32	22:46	1.00	5.000	0.18	50.00	50.00	0.468	0.468	1.00
33	22:49	1.00	5.000	0.18	50.00	50.00	0.422	0.422	1.00
34	24:06	1.00	5.000	0.19	50.00	50.00	0.556	0.556	1.00
35	25:22	1.00	5.000	0.20	50.00	50.00	0.894	0.894	1.00
36	27:51	1.00	5.000	0.22	50.00	50.00	0.452	0.452	1.00
37	33:12	1.00	5.000	0.26	50.00	50.00	0.908	0.908	1.00
38	33:36	1.00	5.000	0.27	50.00	50.00	0.597	0.597	1.00
39	34:58	1.00	5.000	0.28	100.00	100.00	0.576	0.576	1.00
40	12:15	1.00	10.000	0.13	50.00	50.00	1.465	1.465	1.00
41	31:16	1.00	10.000	0.12	50.00	50.00	0.883	0.883	1.00
42	23:53	1.00	10.000	0.26	50.00	50.00	3.799	3.799	1.00

CompuChem Laboratories, Inc.
GC/MS Analysis Log

Initial Time of Tune 16:09
Time Tune Expires 4:09

Shift(s) (A) ____ (B) ____ (C) ____
Date 5-14-86
Analysis Type E237

Run Log

	REJECTED	File Name	REPORTED	Date	Time	EPA I.D.	Case No.	Amount Injected	Operator	Tape No.	Disc. No.	COMMENTS (STD I.D., Lot #'s, Disposition,
1		BF860514B19		51486	16 09			2 µl	941		3017	
2		CS860514B19		1 1	16 30	DIRECT STD		5 ml	941			50 STD # 1856
3		CB860514B19		1 1	17:17	INSTR BLNK		5 ml	941			
4		CN084967B19		1 1	18:19	A, AQC	URSWEST	5 ml	941			
5		CN084970B19		1 1	19 04	55 #1	URSWEST	5 ml	941			aq = 74967
6		CN084971B19		1 1	19 53	55 #2	URSWEST	5 ml	941			
7		CN084977B19		1 1	20 32	E	URSWEST	5 ml	941			
8		CN084980B19		1 1	21 16	C	URSWEST	5 ml	941			
9		CN084981B19		1 1	22:12	D	URSWEST	5 ml	941			
10		CN084988B19		1 1	12 57	F	URSWEST	5 ml	941			
11		CN084985C19		51586	0:17	G	URSWEST	5 µl	891			
12		CN085006C19		1 1	1:16	HB1	URS WEST	5 µl	891			
13		CN085084C19		1 1	2:03	D2	TRC	5 µl	891			
14		CB085084C19		1 1	3:02	D2	TRC	150 µl 5 ml	891			
15				1 1	:							
16				1 1	:							
17				1 1	:							
18				1 1	:							
19				1 1	:							
20				1 1	:							
21				1 1	:							
22				1 1	:							
23				1 1	:							
24				1 1	:							
25				1 1	:							
26				1 1	:							

Brian Bo Foot
5/15/86

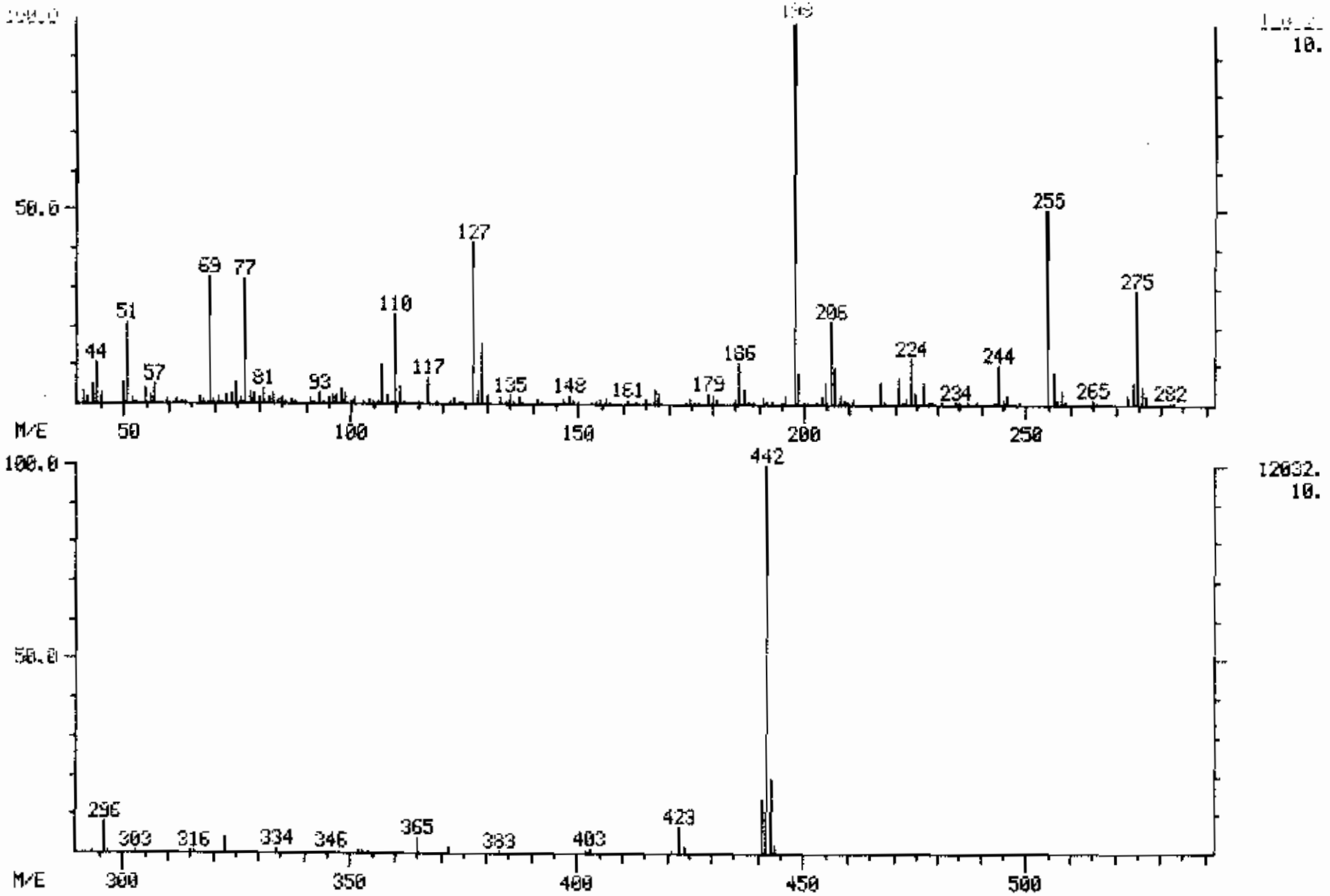
F ard. Multiple Copies

COMPUCHEM LABS

MASS SPECTRUM
03/30/86 2:26:00 + 4:09
SAMPLE: DIL DFTPP (17227)
#276

DATA: DH860326C16 #276

BASE M/E: 442
TIC: 104960.



COMPUCHEM LABS

MASS LIST DATA: DHB60326C16 # 276 BASE M/E: 192
03/30/86 2:26:00 + 4:09 RIC: 108502
SAMPLE: 1UL DFTPP (17227)
ENHANCED (B 15B 2N 0T)

42 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 13152.
444 # 0 MAXIMA

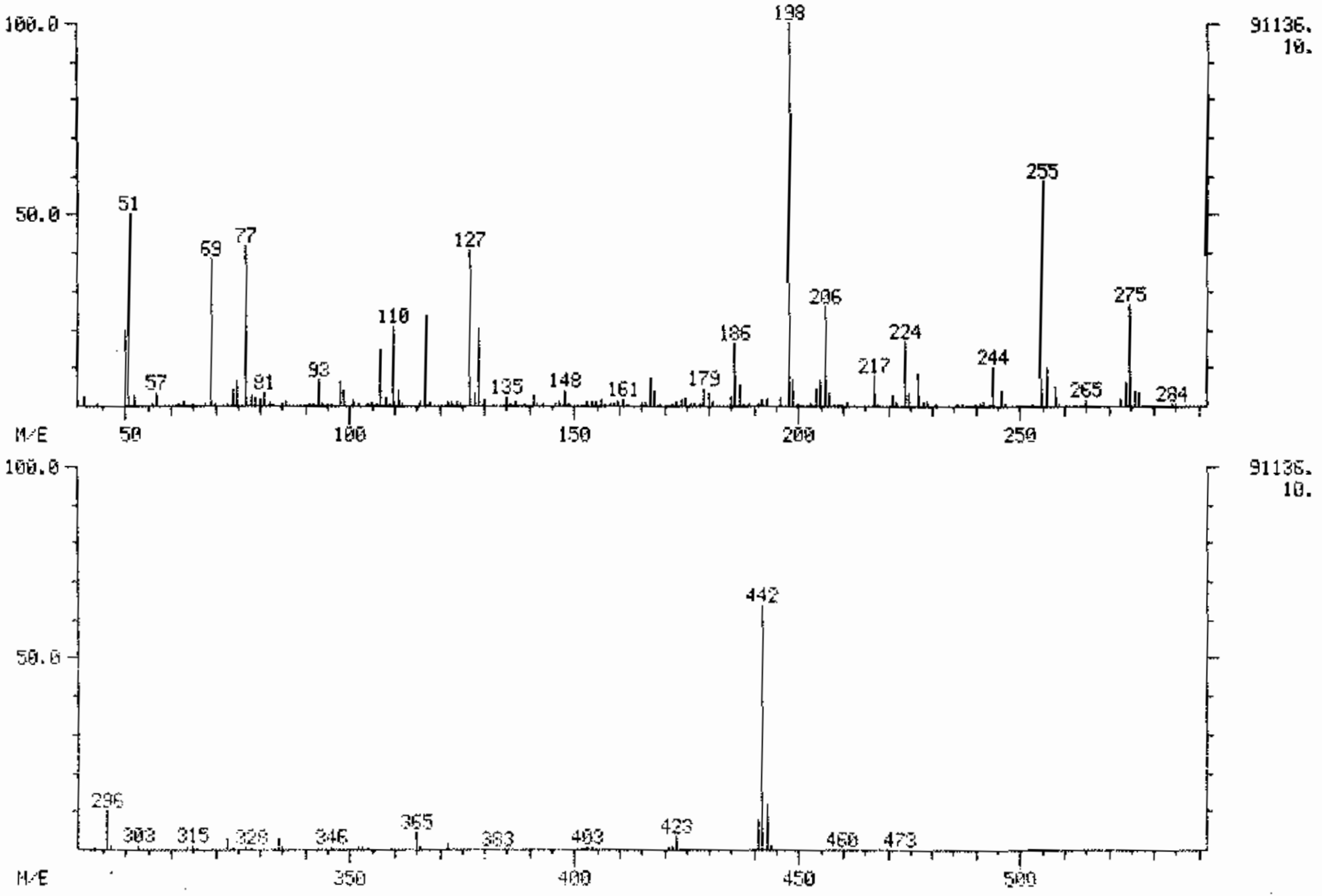
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
42	0.89	111	5.44	175	1.90	246	1.53
43	0.71	112	0.50	176	0.51	249	0.57
44	2.24	113	0.27	177	0.72	253	0.18
50	10.45	115	0.32	178	0.13	255	39.42
51	42.76	116	0.42	179	2.88	256	7.06
52	2.49	117	7.94	180	2.11	257	0.41
53	0.53	118	0.46	181	0.97	258	2.76
54	0.18	119	0.26	185	1.43	259	0.20
56	1.84	121	0.11	186	12.67	265	0.78
57	3.67	122	1.07	187	4.15	266	0.25
58	0.18	123	2.15	188	0.53	273	1.47
61	0.57	124	0.52	189	0.57	274	4.17
62	1.06	125	0.50	191	0.78	275	21.56
63	1.63	127	56.57	192	0.69	276	3.39
64	0.21	128	4.61	193	0.65	277	1.67
65	0.69	129	20.99	194	0.14	282	0.26
66	0.14	130	2.40	195	0.23	283	0.23
69	59.98	134	0.64	196	2.28	285	0.14
72	0.08	135	2.28	198	100.00	293	0.29
74	4.50	136	0.45	199	7.43	296	5.74
75	8.49	137	1.32	200	0.45	297	0.39
76	2.93	138	0.24	201	0.27	303	0.40
77	53.53	140	0.17	202	0.18	315	0.29
78	3.90	141	2.18	203	0.63	316	0.36
79	3.30	142	1.24	204	2.56	323	2.37
80	2.81	143	0.57	205	5.30	334	0.86
81	3.99	146	0.14	206	20.68	341	0.21
82	1.54	147	1.35	208	1.06	346	0.33
83	1.32	148	2.41	209	0.46	352	0.36
86	1.09	150	0.20	210	0.31	353	0.36
87	1.07	151	0.33	211	1.04	354	0.35
88	0.18	152	0.14	217	5.06	365	2.40
89	0.21	153	0.51	218	0.88	372	1.04
91	0.59	154	0.49	221	5.82	383	0.20
92	1.19	155	1.37	222	0.26	402	0.27
93	4.40	156	2.23	223	1.15	403	0.53
94	0.90	157	0.42	224	10.54	421	0.30
95	0.85	160	0.58	225	2.68	423	3.67
98	4.08	161	1.48	226	0.15	424	0.75
99	3.59	162	0.31	227	4.65	441	8.47
100	0.40	163	0.37	228	0.55	442	58.64
101	2.29	164	0.12	229	0.69	443	10.93
103	0.78	165	0.99	231	0.23	444	0.96
104	1.56	166	0.54	234	0.30		
105	1.26	167	4.68	235	0.27		
106	0.63	168	2.92	237	0.29		
107	15.31	171	0.13	239	0.26		
108	2.75	172	0.21	243	0.40		
109	0.36	173	0.24	244	8.17		
110	34.79	174	0.83	245	1.02		

COMPUCHEM LABS

MASS SPECTRUM
05/15/86 19:59:00 + 3:49
SAMPLE: 1UL DFTPP #17822 (#7050) ON #16
#254 TO #255 SUMMED - #250 X1.00

DATA: DM860515B16 #254

BASE M/E: 198
RIC: 815104.



COMPUCHEM LABS

MASS LIST DATA: DM860515B16 # 254 BASE M/E: 198
05/15/86 19:59:00 + 3:49 RIC: 815104.
SAMPLE: 1UL DFTPP #17822 (#7050) ON #16
#254 TO #255 SUMMED - #250 X1.00

41 0.00 MINIMA MIN INTEN: 171. MAX INTEN: 91136.
474 # 0 MAXIMA

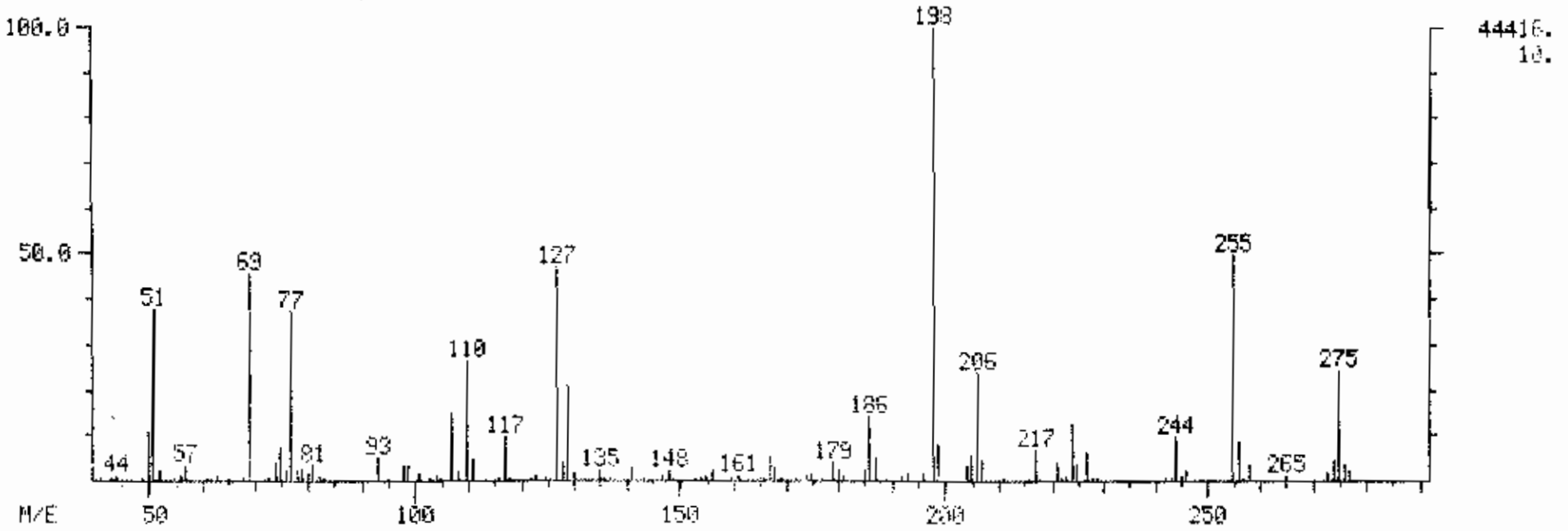
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	2.14	116	1.00	175	2.29	253	0.32
44	0.30	117	23.46	176	0.41	255	58.85
50	19.59	118	0.86	177	0.73	256	10.36
51	50.00	120	0.23	178	0.56	258	5.21
52	2.78	122	1.08	179	4.60	259	0.51
53	0.24	123	1.33	180	3.31	265	1.69
56	0.60	124	0.90	181	1.10	266	0.64
57	3.48	125	0.76	185	2.40	273	1.59
61	0.21	126	0.23	186	16.64	274	6.22
62	0.65	127	40.94	187	5.47	275	26.58
63	1.17	128	3.20	188	0.77	276	3.84
65	0.73	129	20.58	189	0.81	277	3.30
68	0.32	130	1.84	191	0.48	278	0.45
69	38.48	131	0.25	192	1.75	283	0.30
70	0.34	132	0.26	193	1.41	284	0.46
73	0.42	134	0.28	196	2.02	285	0.43
74	4.30	135	2.11	198	100.00	293	0.66
75	6.64	136	0.83	199	6.54	294	0.26
77	41.78	137	1.08	200	0.85	296	10.02
78	2.90	139	0.36	203	0.76	297	1.36
79	2.40	140	0.20	204	4.39	303	0.92
80	1.81	141	2.97	205	6.85	314	0.43
81	3.30	142	0.75	206	26.23	315	0.89
82	0.89	143	0.53	207	3.30	316	0.47
83	0.81	144	0.26	208	0.66	323	2.59
85	0.40	146	0.40	209	0.33	324	0.31
86	0.94	147	1.40	210	0.62	327	0.31
91	0.42	148	3.89	211	1.26	328	0.35
92	0.61	149	0.58	215	0.27	334	2.60
93	6.65	152	0.19	217	8.11	335	0.38
94	0.41	153	0.86	218	0.68	346	0.56
95	0.29	154	0.86	221	2.66	352	0.68
96	0.33	155	1.38	222	1.15	353	0.48
98	6.41	156	1.63	224	17.06	354	0.78
99	3.83	157	0.38	225	3.47	365	4.36
100	0.25	158	0.62	227	8.73	366	0.61
101	1.72	159	0.40	228	1.06	372	1.41
102	0.29	160	1.21	229	1.23	373	0.21
103	0.19	161	1.47	231	0.55	383	0.22
104	0.81	162	0.75	234	0.28	402	0.42
105	1.22	163	0.23	235	0.25	403	0.72
106	0.43	165	1.41	236	0.34	404	0.36
107	14.85	166	1.15	237	0.33	421	0.32
108	2.00	167	7.58	240	0.35	422	0.64
109	0.70	168	4.07	241	0.69	423	3.30
110	20.82	169	0.35	242	0.93	424	0.54
111	3.95	170	0.27	243	0.75	441	7.68
112	0.67	172	0.31	244	10.34	442	64.12
113	0.22	173	0.86	246	3.97	443	11.89
115	0.20	174	1.53	247	0.43	444	1.36

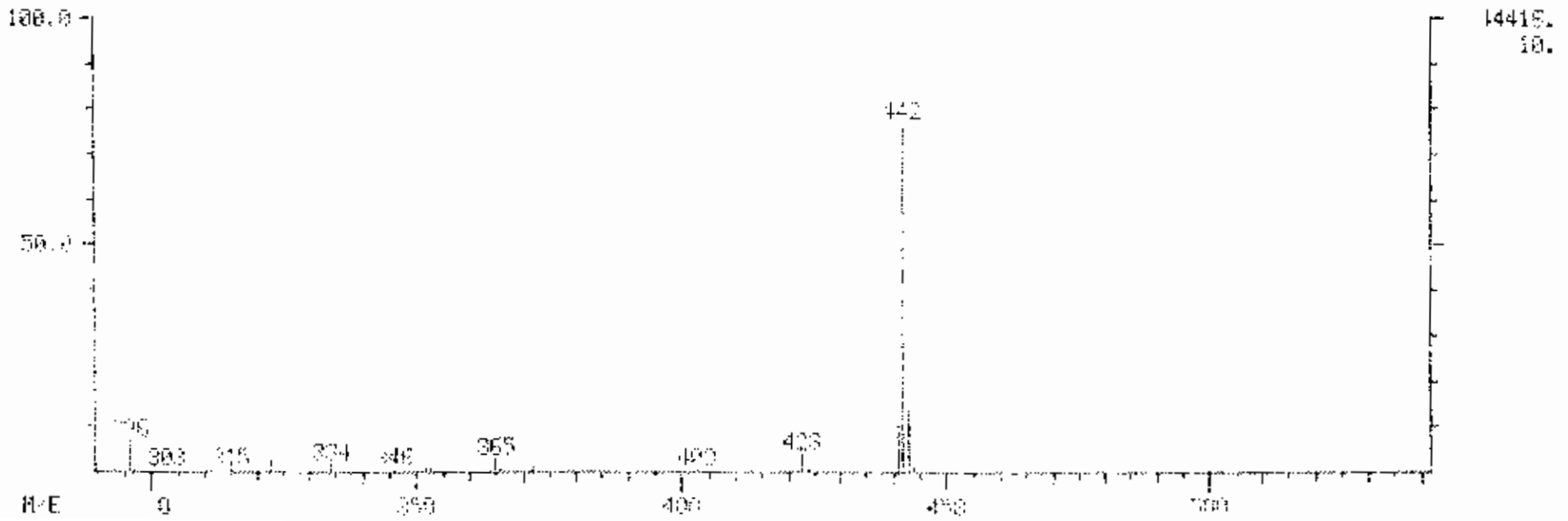
COMPUCHEM LABS

MASS SPECTRUM
05/17/86 6:44:00 + 4:50
SAMPLE: 1UL DFTPP#16 17822#7050 DNA#16
#321 TO #322 SUMMED

DATA: DH860517A16 #321

BASE M/E: 198
RIC: 380448.





COMPUCHEM LABS

MASS LIST DATA: DHS60517A16 # 321 BASE M/E: 198
05/17/86 6:44:00 + 4:50 RIC: 360449.
SAMPLE: 10L DFTPP#16 17822#7050 DWA#16
#321 TO #322 SUMMED

41 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 44416.
444 # 0 MAXIMA

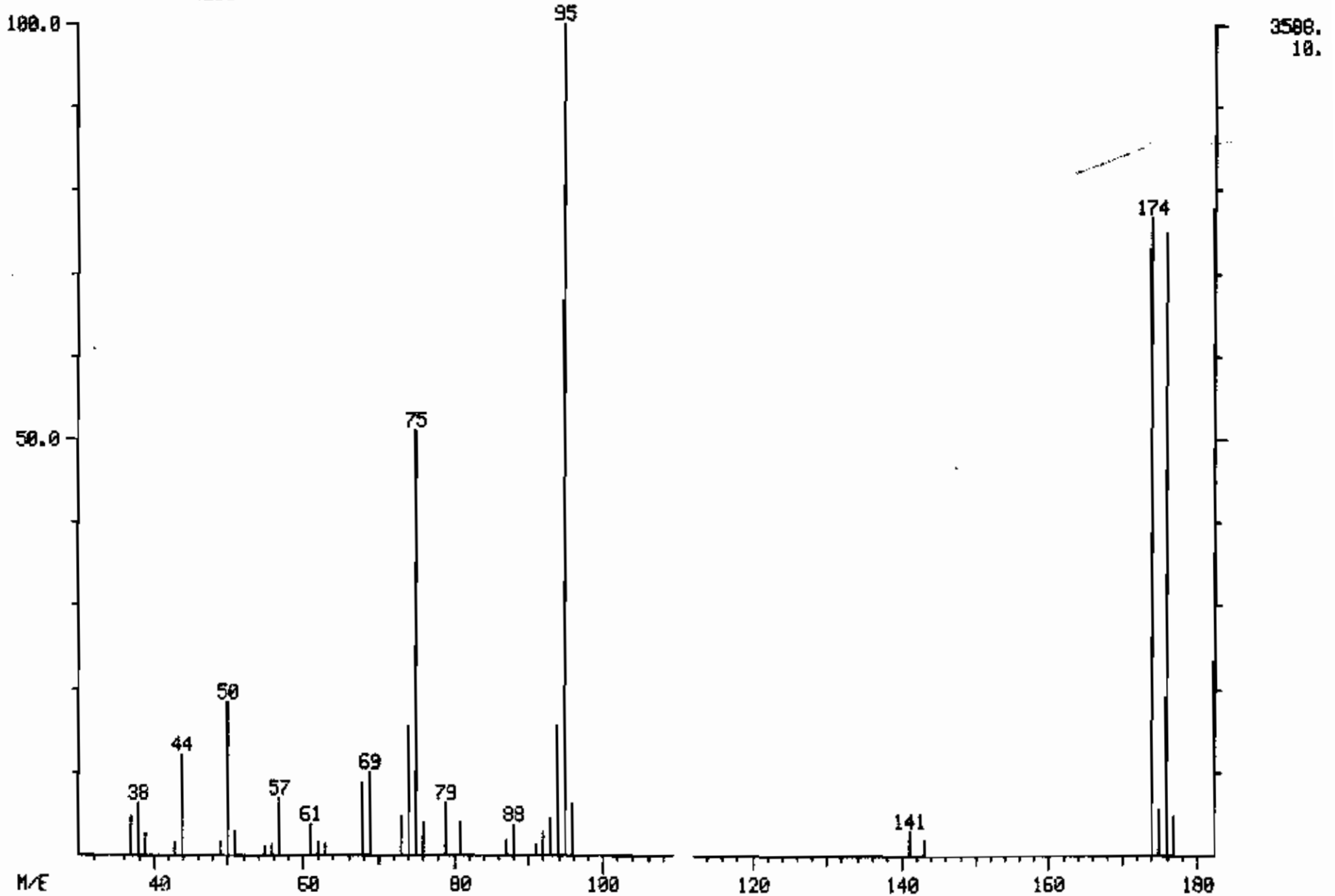
MASS	% RA	MASS	% RA	MASS	% RA	MASS	% RA
41	0.73	118	0.84	198	100.00	354	0.57
43	0.66	122	0.53	199	7.78	365	2.99
44	1.30	123	1.31	202	0.27	366	0.37
49	0.44	124	0.24	203	0.16	372	0.95
50	10.91	125	0.32	204	3.44	403	0.38
51	37.82	127	46.76	205	5.91	421	0.16
52	2.29	128	4.03	206	23.85	422	0.28
55	0.66	129	20.82	207	4.32	423	4.22
56	1.34	130	1.48	208	0.28	424	0.81
57	3.39	131	0.17	209	0.16	441	10.55
61	0.37	135	2.11	211	0.64	442	76.66
62	0.33	136	0.64	216	0.48	443	13.33
65	1.31	137	0.34	217	6.52	444	1.24
67	0.50	141	2.73	218	0.68		
69	0.41	142	0.21	221	4.05		
69	45.61	143	0.29	222	0.79		
73	0.55	147	1.07	223	1.00		
74	4.00	148	2.43	224	12.68		
75	7.55	149	0.61	225	3.39		
76	2.11	153	0.68	227	6.17		
77	37.32	154	0.32	228	0.76		
78	2.54	155	1.19	229	0.78		
79	2.55	156	2.20	231	0.19		
80	1.94	159	0.20	242	0.33		
81	0.39	160	0.75	243	0.42		
83	1.02	161	0.86	244	9.44		
83	0.60	165	0.76	245	0.89		
85	0.68	166	0.45	246	2.10		
86	0.50	167	4.95	255	49.71		
91	0.49	168	2.85	256	8.53		
92	0.58	169	0.32	257	0.66		
93	4.90	172	0.41	258	3.28		
94	0.27	173	0.21	265	1.17		
95	0.47	174	1.11	273	1.41		
96	0.22	175	1.94	274	4.56		
98	3.50	176	0.26	275	24.28		
99	3.30	177	0.71	276	3.27		
101	1.70	179	3.76	277	2.04		
102	0.20	180	2.50	293	0.33		
103	0.30	181	0.98	296	6.96		
104	0.86	185	1.99	297	0.85		
105	0.61	186	14.32	303	0.46		
107	14.88	187	4.81	315	0.31		
108	2.04	188	0.25	316	0.25		
109	0.16	189	0.66	323	2.13		
110	26.46	193	0.21	327	0.23		
111	4.51	192	1.13	334	1.50		
112	0.16	193	1.54	346	0.37		
116	0.34	196	1.93	352	0.55		
117	9.78	197	0.20	353	0.31		

COMPUCHEM LABS

MASS SPECTRUM
05/13/86 15:03:00 + 10:59
SAMPLE: 2UL BFB LOT#17722
#216

DATA: BF860513A19 #216

BASE M/E: 95
RIC: 16920.



COMPUCHEM LABS

MASS LIST DATA: BFB60513A19 # 216 BASE M/E: 95
05/13/86 15:03:00 + 10:59 RIC: 16928.
SAMPLE: 2UL BFB LOT#17722
#216

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 3555.
177 # 0 MAXIMA

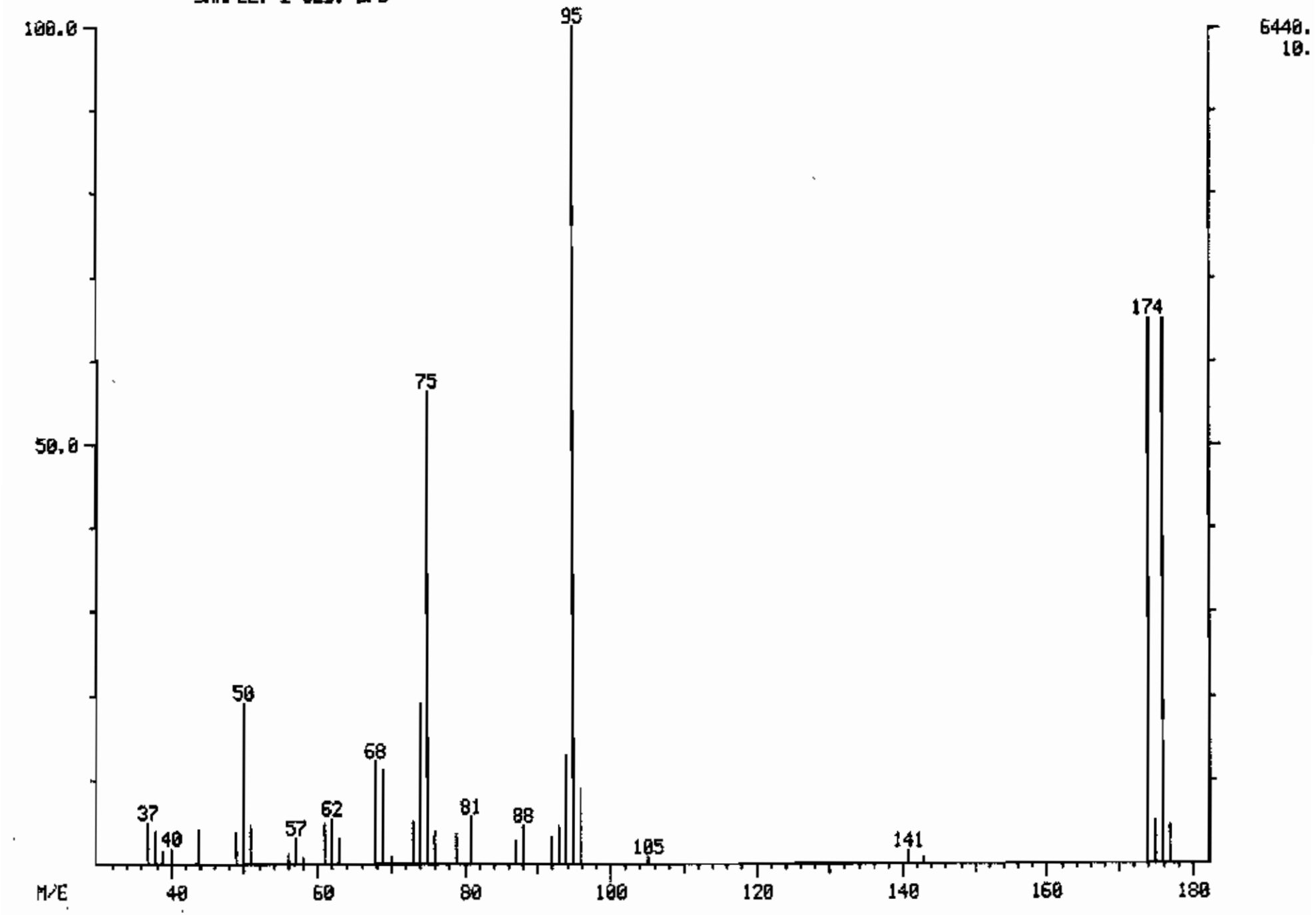
MASS	% RA
37	4.77
38	6.24
39	2.73
43	1.56
44	12.15
49	1.67
50	18.37
51	2.76
55	1.17
56	1.34
57	6.86
61	3.68
62	1.51
63	1.37
68	8.61
69	10.06
73	4.65
74	15.55
75	51.06
76	3.85
79	6.30
81	3.55
87	1.92
88	3.54
91	1.23
92	2.81
93	4.40
94	15.47
95	100.00
96	6.35
141	2.87
143	1.95
174	76.59
175	5.52
176	74.92
177	4.77

COMPUCHEM LABS

MASS SPECTRUM
05/14/86 16:09:00 + 10:59
SAMPLE: 2 ULS. BFB

DATA: BF860514B19 #216

BASE M/E: 95
RIC: 29632.



COMPUCHEM LABS

MASS LIST DATA: BFB60514B19 # 216 BASE M/E: 95
05/14/86 16:09:00 + 10:59 RIC: 29632.
SAMPLE: 2 ULS. BFB

37 0.00 MINIMA MIN INTEN: 0. MAX INTEN: 6440.
177 # 0 MAXIMA

MASS	% RA
37	4.74
38	3.82
39	1.44
40	1.66
44	4.08
49	3.85
50	19.16
51	4.70
56	1.16
57	2.93
58	0.87
61	4.86
62	5.39
63	3.15
68	12.28
69	11.15
70	0.75
73	5.17
74	19.07
75	56.40
76	3.94
79	3.63
81	5.56
87	2.70
88	4.64
92	3.25
93	4.53
94	13.11
95	100.00
96	8.98
105	0.67
141	1.49
143	0.70
174	65.09
175	5.22
176	65.09
177	4.47

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CF860513B19
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS West
QC Report No: _____
Contract No: Platinum
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed: 05-13-86
Conc/Dil Factor: 1.00 pH:
Percent moisture (not decanted): N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
74-83-9	Bromomethane	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl Chloride	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10.	U	79-00-5	1,1,2-Trichloroethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	71-43-2	Benzene	5.0	U
67-64-1	Acetone	10.	U	10061-01-5	cis-1,3-Dichloropropede	5.0	U
75-15-0	Carbon Disulfide	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-4	1,1-Dichloroethene	5.0	U	75-25-2	Bromoform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	127-18-4	Tetrachloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name CompuChem Laboratories

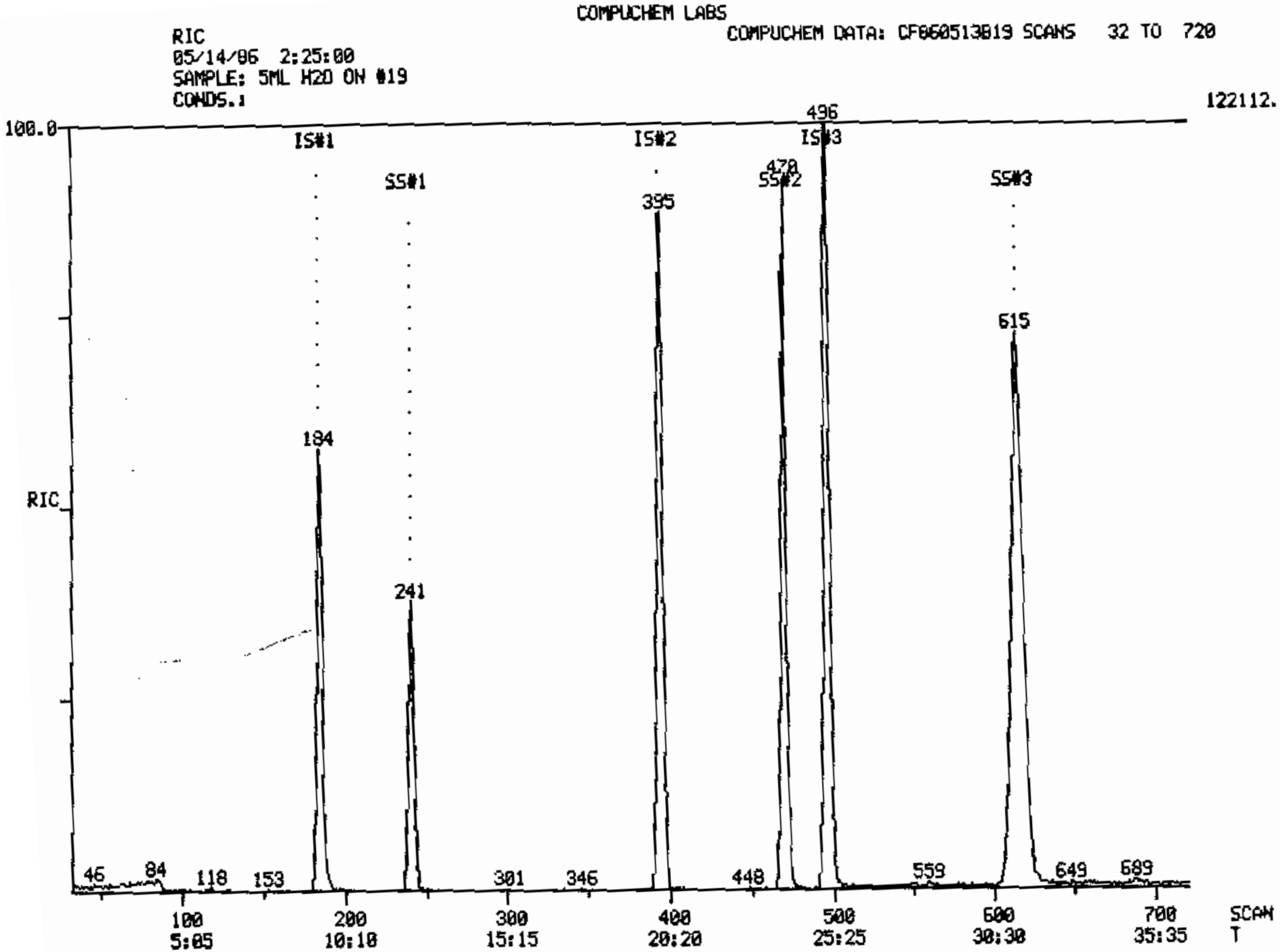
Case No URS West

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					


COMPUCHEM LABS
COMPUCHEM DATA: CF060513B19 SCANS 32 TO 720
RIC
05/14/06 2:25:00
SAMPLE: 5ML H2O ON #19
COND5.1
122112.
100.0
IS#1
SS#1
IS#2
SS#2
IS#3
SS#3
496
470
395
615
184
241
RIC
46
84
118
153
301
346
448
559
649
689
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:35
SCAN
T

INTERNAL STANDARD AREA MONITOR

METHOD: RCRA FILENAME: CF860513B19 DATE: 05/14/86
SHIFT STD: CSB60513B19 TIME: 2:25

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1	43624.	37418.	17.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1	190691.	170201.	12.	PASS
*270 D5-CHLOROBENZENE (IS) E3#1	180912.	169393.	7.	PASS

QUANTITATION REPORT FILE: CF860513B19

DATA: CF860513B19.TI
05/14/86 2:25:00
SAMPLE: 5ML H2O ON #19
CONDS.:
SUBMITTED BY: 19 ANALYST: 891

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (I8) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (I8) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
19	212 BROMODICHLOROMETHANE <75-27-4> E2#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4
43	272 CROTONALDHYDE <4170-30-3> E9#1
44	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> E9#2
45	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> E9#3
46	245 1,2-DIBROMOETHANE <106-93-4> E9#4

NO	NAME
47	275 1,2,3-TRICHLOROPROPANE <96-18-4> E9#5
48	274 1,4-DICHLORO-2-BUTENE <764-71-0> E9#6
49	230 TRICHLOROFLUOROMETHANE <75-69-4> E9#10
50	201 ACROLEIN <107-02-8> E9#16
51	202 ACRYLONITRILE <107-13-1> E9#17

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BB	43624.	50.000 UG/L	17.19
2	50	NOT FOUND							
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	NOT FOUND							
7	43	129	6:33	1	0.701	A BB	364.	3.416 UG/L	1.17
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	NOT FOUND							
13	62	NOT FOUND							
14	114	394	20:02	14	1.000	A BB	190691.	50.000 UG/L	17.19
15	72	NOT FOUND							
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	496	25:13	29	1.000	A BV	180912.	50.000 UG/L	17.19
30	43	NOT FOUND							
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	NOT FOUND							
35	112	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	106	NOT FOUND							
39	106	NOT FOUND							
40	65	241	12:15	1	1.310	A BV	58941.	40.605 UG/L	13.96
41	95	615	31:16	29	1.240	A BB	161023.	49.008 UG/L	16.85
42	98	470	23:53	1	2.554	A BB	164764.	47.925 UG/L	16.48
43	70	NOT FOUND							
44	157	NOT FOUND							
45	131	NOT FOUND							
46	107	NOT FOUND							
47	110	NOT FOUND							
48	88	NOT FOUND							
49	101	NOT FOUND							

NO	M/E	SCAN	TIME
50	56	NOT FOUND	
51	53	NOT FOUND	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:38		10.000			200.00		0.917	
3	2:23		10.000			200.00		1.648	
4	3:03		10.000			200.00		1.065	
5	3:49		10.000			200.00		0.529	
6	5:57		5.000			200.00		0.854	
7	6:30	1.01	10.000	0.07	3.42	200.00	0.002	0.122	0.02
8	7:28		5.000			200.00		2.223	
9	8:48		5.000			200.00		1.067	
10	10:10		5.000			200.00		1.338	
11	10:56		5.000			200.00		1.084	
12	11:35		5.000			200.00		2.524	
13	12:18		5.000			200.00		1.454	
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	12:12		10.000			200.00		0.014	
16	13:40		5.000			200.00		0.559	
17	14:05		5.000			200.00		0.702	
18	14:11		10.000			200.00		0.174	
19	14:38		5.000			200.00		0.588	
20	16:04		5.000			200.00		0.254	
21	16:19		5.000			200.00		0.378	
22	16:53		5.000			200.00		0.431	
23	17:35		5.000			200.00		0.647	
24	17:41		5.000			200.00		0.329	
25	17:20		5.000			200.00		0.565	
26	17:38		5.000			200.00		0.296	
27	18:45		10.000			200.00		0.113	
28	20:23		5.000			200.00		0.398	
29	25:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:47		10.000			200.00		0.151	
31	22:25		10.000			200.00		0.099	
32	22:43		5.000			200.00		0.428	
33	22:46		5.000			200.00		0.412	
34	24:03		5.000			200.00		0.536	
35	25:19		5.000			200.00		0.876	
36	27:48		5.000			200.00		0.416	
37	33:06		5.000			200.00		0.964	
38	33:33		5.000			200.00		0.611	
39	34:52		5.000			400.00		0.613	
40	12:12	1.00	10.000	0.13	40.60	50.00	1.351	1.664	0.81
41	31:10	1.00	10.000	0.12	49.01	50.00	0.890	0.908	0.98
42	23:50	1.00	10.000	0.26	47.93	50.00	3.777	3.940	0.96
43	15:18		50.000			2000.01		0.004	
44	28:25		20.000			800.00		0.072	
45	20:35		20.000			800.00		0.486	
46	18:33		5.000			200.00		0.557	
47	22:31		5.000			200.00		0.140	
48	22:07		20.000			800.00		0.119	
49	8:08		5.000			200.00		3.882	
50	6:27		50.000			800.00		0.098	
51	7:13		50.000			400.00		0.543	

COMPUCHEM # 860513 FILE: CF860513B19 COMPOUND LIST 145 PAGE
VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS) <75	184	43600.	50.0		
221	50		CHLOROMETHANE <74-87-3> E1#				BDL	10
220	94		BROMOMETHANE <78-83-9> E1#3				BDL	10
231	62		VINYL CHLORIDE <75-01-4> E1				BDL	10
209	64		CHLORDETHANE <75-00-3> E1#5				BDL	10
222	84		METHYLENE CHLORIDE <75-09-2				BDL	5
252	43		ACETONE (2-PROPANONE) <67-6			3.4	3.4	10
254	76		CARBON DISULFIDE <75-15-0>				BDL	5
216	96		1,1-DICHLORDETHYLENE <75-35				BDL	5
214	63		1,1-DICHLORDETHANE <75-34-3				BDL	5
226	96		TRANS-1,2-DICHLORDETHYLENE				BDL	5
211	83		CHLOROFORM <67-66-3> E1#12				BDL	5
215	62		1,2-DICHLORDETHANE <107-06-				BDL	5
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	394	191000.	50.0		
253	72		2-BUTANONE <78-93-3> E2#2				BDL	10
227	97		1,1,1-TRICHLORDETHANE <71-5				BDL	5
206	117		CARBON TETRACHLORIDE <56-23				BDL	5
257	43		VINYL ACETATE <108-05-4> E2				BDL	10
212	83		BROMODICHLOROMETHANE <75-27				BDL	5
217	63		1,2-DICHLORDPROPANE <78-87-				BDL	5
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	5
229	130		TRICHLORDETHYLENE <79-01-6>				BDL	5
208	129		CHLORODIBROMOMETHANE <124-4				BDL	5
228	97		1,1,2-TRICHLORDETHANE <79-0				BDL	5
203	78		BENZENE <71-43-2> E2#12				BDL	5
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	5
210	63		2-CHLORDETHYL VINYL ETHER <				BDL	10
205	173		BROMOFORM <75-25-2> E2#15				BDL	5
270	117	I	D5-CHLOROBENZENE (I8) E3#1	496	181000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	10
255	43		2-HEXANONE <591-78-6> E3#3				BDL	10
224	164		TETRACHLORDETHENE <127-18-4				BDL	5
223	83		1,1,2,2-TETRACHLORDETHANE <				BDL	5
225	92		TOLUENE <108-88-3> E3#6				BDL	5
207	112		CHLORDBENZENE <108-90-7> E3				BDL	5
219	106		ETHYLBENZENE <100-41-4> E3#				BDL	5
251	104		STYRENE <100-42-5> E3#9				BDL	5
240	106		M-XYLENE E3#10				BDL	5
271	106		O,P-XYLENE E3#11				BDL	5
258	65	S	D4-1,2-DICHLORDETHANE E4#2			40.6	81.%	
247	95	S	BROMOFLUOROBENZENE <460-00-			49.0	98.%	
233	98	S	D8-TOLUENE E4#4			47.9	96.%	
272	70		CROTONALDHYDE <4170-30-3> E				BDL	50
262	157		1,2-DIBROMO-3-CHLOROPROPANE				BDL	20
273	131		1,1,1,2-TETRACHLORDETHANE <				BDL	20
245	107		1,2-DIBROMOETHANE <106-93-4				BDL	5
275	110		1,2,3-TRICHLOROPROPANE <96-				BDL	5
274	88		1,4-DICHLORO-2-BUTENE <764-				BDL	20
230	101		TRICHLOROFLUOROMETHANE <75-				BDL	5
201	56		ACROLEIN <107-02-8> E9#16				BDL	50
202	53		ACRYLONITRILE <107-13-1> E9				BDL	50
ECKSUMS:								
4742.	660			1074	415600.	290.9	275.	

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E4#2	40.6	50.0	81.	76-114	X	
41	247	BROMOFLUOROBENZENE <460-00-	49.0	50.0	98.	86-115	X	
42	233	D8-TOLUENE E4#4	47.9	50.0	96.	88-110	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

Sample Number
INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: C8860514B19
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS West
QC Report No: _____
Contract No: Platinum
Date Sample
Received:

Volatile Compounds
Concentration: low
Date extracted/prepared:
Date analyzed: 05-14-86
Conc/Dil Factor: 1.00 pH:
Percent moisture (not decanted): N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
74-83-9	Bromomethane	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl Chloride	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10.	U	79-00-5	1,1,2-Trichloroethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	71-43-2	Benzene	5.0	U
67-64-1	Acetone	10.	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-4	1,1-Dichloroethene	5.0	U	75-25-2	Bromoform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	127-18-4	Tetrachloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides)/= 10ng/ul in the final extra should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/ probable blank contamination and warns the data us take appropriate action.

Other Other specific flags and footnotes may be required properly define the results. If used, they must b fully described and such description attached to t data summary report.

Laboratory Name: CompuChem Laboratories

Case No: Platinum

Sample Number: INSTRUMENT BLANK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO VOLATILE COMPOUNDS FOUND			
2.				
3.				
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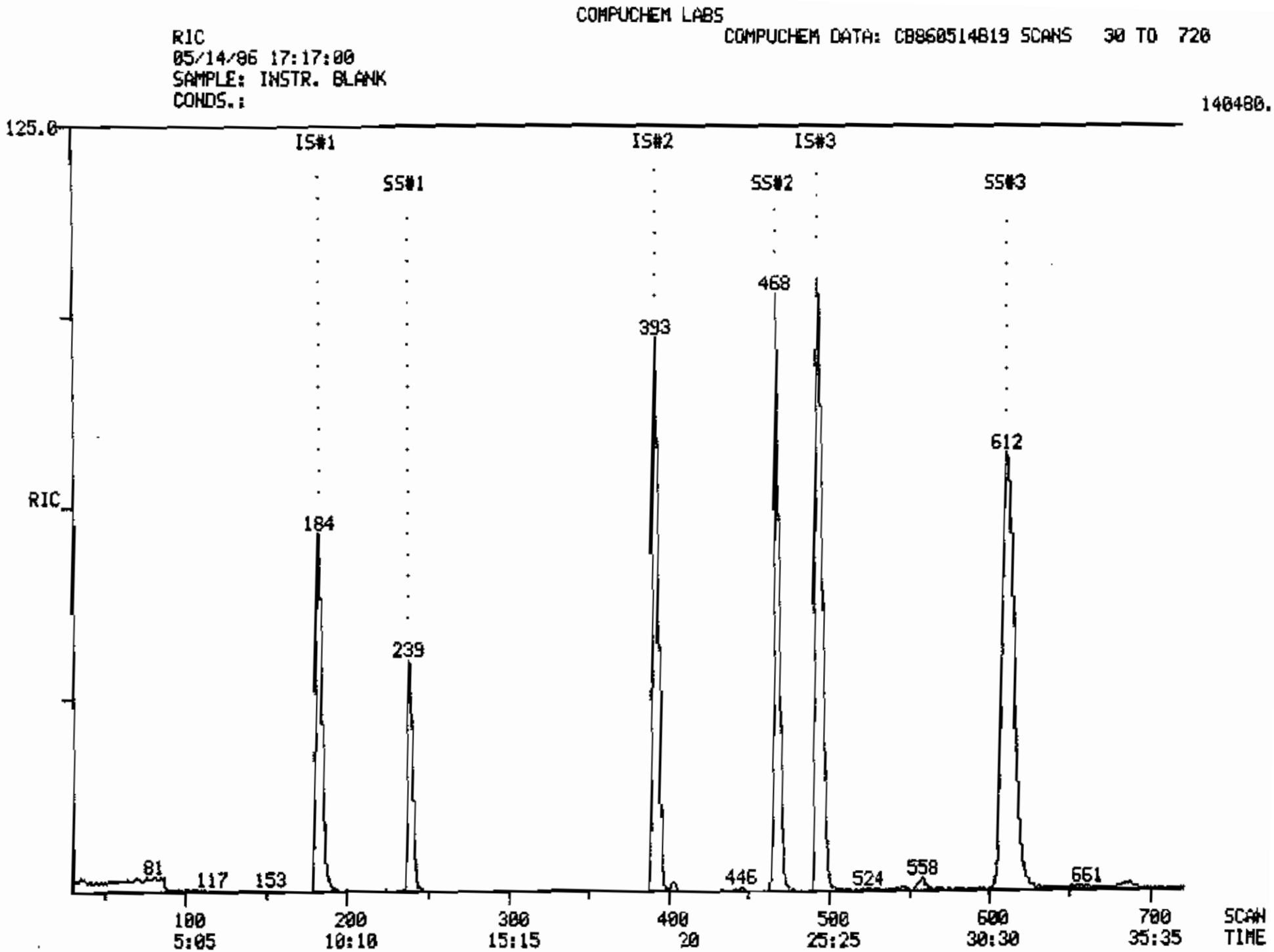
29.				
30.				


COMPUCHEM LABS
RIC
05/14/96 17:17:00
SAMPLE: INSTR. BLANK
CONDS.:
COMPUCHEM DATA: CB860514B19 SCANS 30 TO 720
140480.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
184
239
393
468
612
81
117
153
446
524
558
661
100
5:05
200
10:10
300
15:15
400
20
500
25:25
600
30:30
700
35:35
SCAN
TIME

INTERNAL STANDARD AR

METHOD: E237 FILENAME: CB860514B19 DATE: 05/14/86
SHIFT STD: CS860514B19 TIME: 17:17

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1	41166.	46117.	-11.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1	172158.	198683.	-13.	PASS
*270 D5-CHLOROBENZENE (IS) E3#1	1656D6.	189582.	-13.	PASS

```
QUANTITATI(

DATA: CBB60514B19.TI
05/14/86 17:17:00
`AMPLE: INSTR. BLANK
 ONDS.:
SUBMITTED BY: 19              ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 ND  NAME
  1  *234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
  2   221 CHLOROMETHANE <74-87-3> E1#2
  3   220 BROMOMETHANE <78-83-9> E1#3
  4   231 VINYL CHLORIDE <75-01-4> E1#4
  5   209 CHLORDETHANE <75-00-3> E1#5
  6   222 METHYLENE CHLORIDE <75-09-2> E1#6
  7   252 ACETONE (2-PROPANONE) <67-64-1> E1#7
  8   254 CARBON DISULFIDE <75-15-0> E1#8
  9   216 1,1-DICHLORDETHYLENE <75-35-4> E1#9
 10   214 1,1-DICHLORDETHANE <75-34-3> E1#10
 11   226 TRANS-1,2-DICHLORDETHYLENE <156-60-5> E1#11
 12   211 CHLOROFORN <67-66-3> E1#12
 13   215 1,2-DICHLORDETHANE <107-06-2> E1#13
 14  *248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
 15   253 2-BUTANONE <78-93-3> E2#2
 16   227 1,1,1-TRICHLORDETHANE <71-55-6> E2#3
 17   206 CARBON TETRACHLORIDE <56-23-5> E2#4
 18   257 VINYL ACETATE <108-05-4> E2#5
 19   212 BRDMODICHLOROMETHANE <75-27-4> E2#6
 20   217 1,2-DICHLOROPROPANE <78-87-5> E2#7
 21   250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
 22   229 TRICHLORDETHYLENE <79-01-6> E2#9
 23   208 CHLORODIBROMOMETHANE <124-48-1> E2#10
 24   228 1,1,2-TRICHLORDETHANE <79-00-5> E2#11
 25   203 BENZENE <71-43-2> E2#12
 26   218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
 27   210 2-CHLORDETHYL VINYL ETHER <110-75-8> E2#14
 28   205 BROMOFORM <75-25-2> E2#15
 29  *270 D5-CHLOROBENZENE (IS) E3#1
 30   256 4-METHYL-2-PENTANONE <108-10-1> E3#2
 31   255 2-HEXANONE <591-78-6> E3#3
 32   224 TETRACHLORDETHENE <127-18-4> E3#4
 33   223 1,1,2,2-TETRACHLORDETHANE <79-34-5> E3#5
 34   225 TOLUENE <108-88-3> E3#6
 35   207 CHLOROBENZENE <108-90-7> E3#7
 36   219 ETHYLBENZENE <100-41-4> E3#8
 37   251 STYRENE <1D0-42-5> E3#9
 38   240 M-XYLENE E3#10
 39   271 O,P-XYLENE E3#11
 40  #258 D4-1,2-DICHLORDETHANE E4#2
 41  #247 BROMOFLUOROBENZENE <460-00-4> E4#3
 42  #233 D8-TOLUENE E4#4

 ND  M/E  SCAN   TIME  REF   RRT  METH     AREA(HGHT)  AMOUNT          %TOT
  1  128   183   9:18   1  1.000  A BV      41166.     50.000 UG/L   16.64
  2   50  NOT FOUND
```

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	NOT FOUND								
7	43	128	6:30	1	0.699	A BB	260.	2.415	UG/L	0.80
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	392	19:56	14	1.000	A BV	172158.	50.000	UG/L	16.64
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	494	25:07	29	1.000	A BV	165606.	50.000	UG/L	16.64
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	239	12:09	1	1.306	A BV	56903.	47.170	UG/L	15.69
41	95	612	31:07	29	1.239	A BB	149284.	51.044	UG/L	16.98
42	98	468	23:47	1	2.557	A BB	156351.	49.989	UG/L	16.63

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.971	
3	2:23		10.000			50.00		1.729	
4	3:03		10.000			50.00		1.079	
5	3:52		10.000			50.00		0.582	
6	5:57		5.000			50.00		0.902	
7	6:30	1.00	10.000	0.07	2.41	50.00	0.006	0.131	0.05
8	7:31		5.000			50.00		1.826	
9	8:51		5.000			50.00		1.113	
10	10:13		5.000			50.00		1.290	
11	10:56		5.000			50.00		1.107	
12	11:35		5.000			50.00		2.374	
13	12:21		5.000			50.00		1.434	
14	20:02	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:12		10.000			50.00		0.012	
16	13:43		5.000			50.00		0.528	
17	14:08		5.000			50.00		0.637	
18	14:14		10.000			50.00		0.156	
19	14:41		5.000			50.00		0.518	
20	16:04		5.000			50.00		0.226	
21	16:19		5.000			50.00		0.323	
22	16:53		5.000			50.00		0.442	
23	17:35		5.000			50.00		0.535	
24	17:41		5.000			50.00		0.306	
25	17:23		5.000			50.00		0.566	
26	17:41		5.000			50.00		0.228	
27	18:45		10.000			50.00		0.104	
28	20:26		5.000			50.00		0.335	
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:50		10.000			50.00		0.142	
31	22:25		10.000			50.00		0.091	
32	22:46		5.000			50.00		0.468	
33	22:49		5.000			50.00		0.422	
34	24:06		5.000			50.00		0.556	
35	25:22		5.000			50.00		0.894	
36	27:51		5.000			50.00		0.452	
37	33:12		5.000			50.00		0.908	
38	33:36		5.000			50.00		0.597	
39	34:58		5.000			100.00		0.576	
40	12:15	0.99	10.000	0.13	47.17	50.00	1.382	1.465	0.94
41	31:16	1.00	10.000	0.12	51.04	50.00	0.901	0.883	1.02
42	23:59	1.00	10.000	0.26	49.99	50.00	3.798	3.799	1.00

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS) <75	183	41200.	50.0		
221	50		CHLOROMETHANE <74-87-3> E1#				BDL	10.
220	94		BROMOMETHANE <78-83-9> E1#3				BDL	10.
231	62		VINYL CHLORIDE <75-01-4> E1				BDL	10.
209	64		CHLOROETHANE <75-00-3> E1#5				BDL	10.
222	84		METHYLENE CHLORIDE <75-09-2				BDL	5.
252	43		ACETONE (2-PROPANONE) <67-6			2.4	JBDL	10.
254	76		CARBON DISULFIDE <75-15-0>				BDL	5.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	5.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM <67-66-3> E1#12				BDL	5.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	5.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	392	172000.	50.0		
253	72		2-BUTANONE <78-93-3> E2#2				BDL	10.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	5.
206	117		CARBON TETRACHLORIDE <56-23				BDL	5.
257	43		VINYL ACETATE <108-05-4> E2				BDL	10.
212	83		BROMODICHLOROMETHANE <75-27				BDL	5.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	5.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	5.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	5.
228	97		1,1,2-TRICHLOROETHANE <79-0				BDL	5.
3	78		BENZENE <71-43-2> E2#12				BDL	5.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	10.
205	173		BROMOFORM <75-25-2> E2#15				BDL	5.
270	117	I	D5-CHLOROBENZENE (IS) E3#1	494	166000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	10.
255	43		2-HEXANONE <591-78-6> E3#3				BDL	10.
224	164		TETRACHLOROETHENE <127-18-4				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	5.
225	92		TOLUENE <108-88-3> E3#6				BDL	5.
207	112		CHLOROBENZENE <108-90-7> E3				BDL	5.
219	106		ETHYLBENZENE <100-41-4> E3#				BDL	5.
251	104		STYRENE <100-42-5> E3#9				BDL	5.
240	106		M-XYLENE E3#10				BDL	5.
271	106		O,P-XYLENE E3#11				BDL	5.
258	65	S	D4-1,2-DICHLOROETHANE E4#2			47.2	94.%	
247	95	S	BROMOFLUOROBENZENE <460-00-			51.0	102.%	
233	98	S	D8-TOLUENE E4#4			50.0	100.%	
CHECKSUMS:								
1742.	660			1069	379200.	300.6	296.	

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E4#2	47.2	50.0	94.	76-114	X	
41	247	BROMOFLUOROBENZENE <460-00-	51.0	50.0	102.	86-115	X	
42	233	D8-TOLUENE E4#4	50.0	50.0	100.	88-110	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS ___/___

CORRECTION FACTOR CALCULATION:

$$\frac{5000\ \text{UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000\ \text{UL}}{5000.\ (\text{UL})} = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

Laboratory Name: CompuChem
se : URS West

Sample Number
GH085040C16

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 5-13-86
Date analyzed: 5-16-86
Conc/Dil Factor: 2.00
Percent moisture (decanted): N/A

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/l		CAS Number		ug/l	
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20.	U	132-64-9	Dibenzofuran	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	84-66-2	Diethylphthalate	20.	U
95-48-7	2-Methylphenol	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	86-73-7	Fluorene	20.	U
106-44-5	4-Methylphenol	20.	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
67-72-1	Hexachloroethane	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
98-95-3	Nitrobenzene	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
78-59-1	Isophorone	20.	U	118-74-1	Hexachlorobenzene	20.	U
88-75-5	2-Nitrophenol	20.	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20.	U	85-01-8	Phenanthrene	20.	U
65-85-0	Benzoic Acid	100	U	120-12-7	Anthracene	20.	U
111-91-1	bis(2-Chloroethoxyl methane	20.	U	84-74-2	Di-n-butylphthalate	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	206-44-0	Fluoranthene	20.	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U
99-09-2	3-Nitroaniline	100	U				

(1) Cannot be separated from diphenylamine

Laboratory Name: CompuChem Laboratories

Case No: URS West

Sample Number: GH0B5040CK

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO SEMI - VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
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11.					
12.					
13.					
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26.					
27.					
28.					
29.					
30					

COMPUCHEM LABS

RIC

COMPUCHEM DATA: GH085040C16 SCANS 285 TO 1550

05/16/86 5:43:00

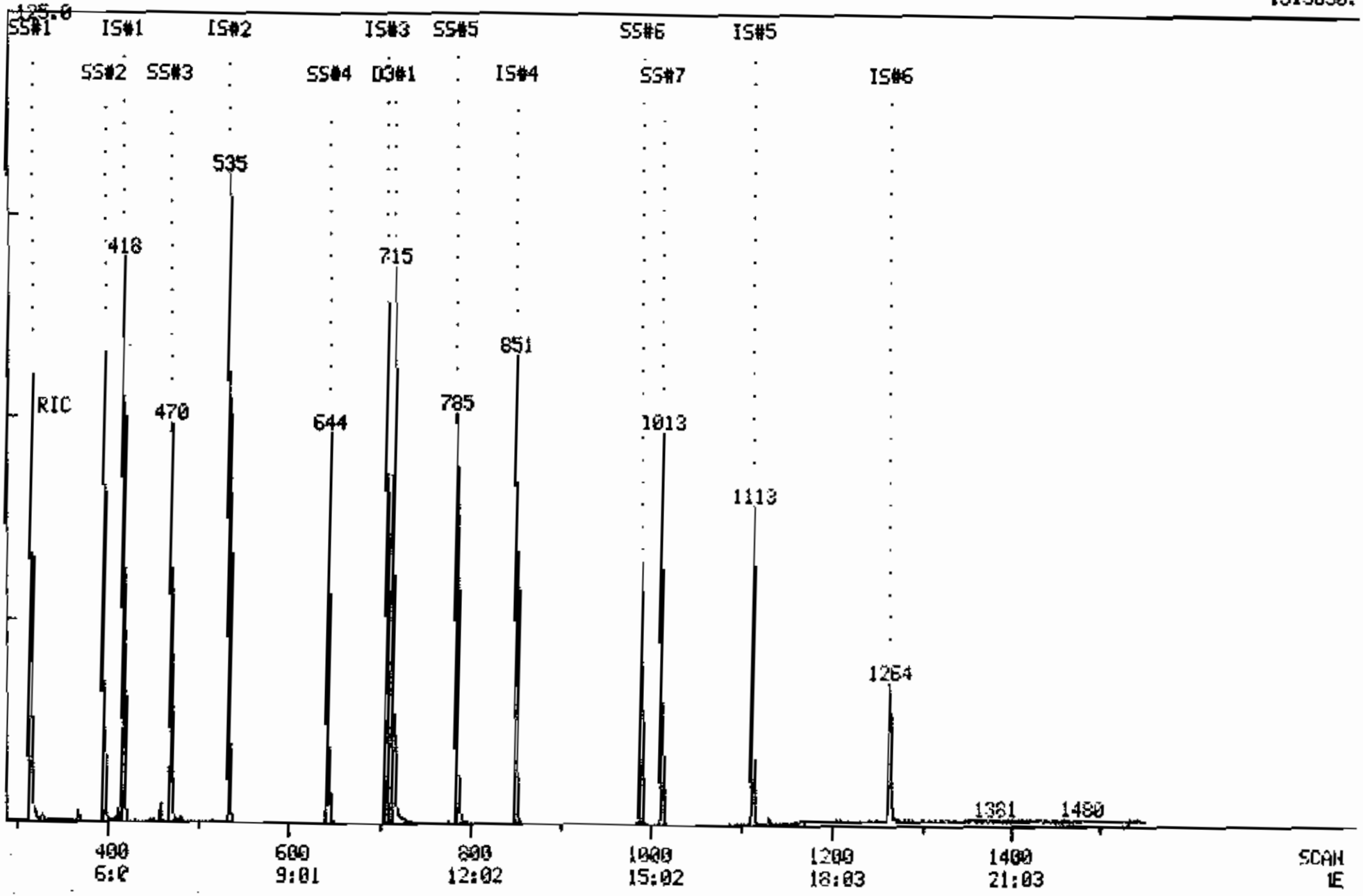
OUT OF 285 TO 1550

SAMPLE: 1UL CC#85040 (5-13-86) CS# URS WEST EPA# BLANK#1

CONDS.:

1315830.

125.0



INTERNAL STANDARD AREA MONITOR

METHOD: SEMI2 FILENAME: GH085040C16 DATE: 05/16/86
SHIFT BTD: HH860515B16 TIME: 5:43

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT BTD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	151860.	122060.	24.	PASS
*460 D8-NAPHTHALENE (IS#2)	565336.	478332.	18.	PASS
*495 D10-ACENAPHTHENE (IS#3)	279660.	253664.	10.	PASS
*467 D10-PHENANTHRENE (IS#4)	376840.	259140.	45.	PASS
*459 D12-CHRYSENE (IS#5)	291260.	250904.	16.	PASS
*497 D12-PERYLENE (IS#6)	241892.	171412.	41.	PASS

QUANTITATION REPORT FILE: GH085040C16

DATA: GH085040C16.TI
05/16/86 5:43:00
SAMPLE: 1UL CC#85040 (5-13-86) CS# URS WEST EPA# BLANK#1
COMDS.:
SUBMITTED BY: 16 ANALYST: 619

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	610 PHENOL (G1#3) <108-95-2>
3	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
4	601 2-CHLOROPHENOL (G1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
7	474 BENZYL ALCOHOL (G1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
9	620 2-METHYLPHENOL (G1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
11	622 4-METHYLPHENOL (G1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
13	436 HEXACHLOROETHANE (G1#15) <67-72-1>
14	440 NITROBENZENE (G1#16) <98-95-3>
15	*460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (G2#2) <78-59-1>
17	606 2-NITROPHENOL (G2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
19	625 BENZOIC ACID (G2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
23	439 NAPHTHALENE (G2#9) <91-20-3>
24	475 4-CHLOROANILINE (G2#10) <106-47-8>
25	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
28	*495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
33	478 2-NITROANILINE (G3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
35	402 ACENAPHTHYLENE (G3#8) <208-96-8>
36	479 3-NITROANILINE (G3#9) <99-09-2>
37	401 ACENAPHTHENE (G3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (G3#11) <51-28-5>
39	607 4-NITROPHENOL (G3#12) <100-02-7>
40	476 DIBENZOFURAN (G3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
45	432 FLUORENE (G3#18) <86-73-7>
46	480 4-NITROANILINE (G3#19) <100-01-6>

NO	NAME
47	#467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
53	444 PHENANTHRENE (Q4#7) <85-01-8>
54	403 ANTHRACENE (Q4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
56	431 FLUORANTHENE (Q4#10) <206-44-0>
57	#459 D12-CHRYSENE (IS#5)
58	445 PYRENE (Q5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
63	419 CHRYSENE (Q5#8) <218-01-9>
64	#497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
68	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	418	6:17	1	1.000	A BV	151860.	40.000 NG	7.02
2	94	NOT FOUND							
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	535	8:03	15	1.000	A BV	565336.	40.000 NG	7.02
16	82	NOT FOUND							
17	139	NOT FOUND							
18	122	NOT FOUND							
19	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
22	180	NOT FOUND								
23	128	NOT FOUND								
24	127	NOT FOUND								
25	225	NOT FOUND								
26	107	NOT FOUND								
27	142	NOT FOUND								
28	164	707	10:38	28	1.000	A BB	279660.	40.000	NG	7.02
29	237	NOT FOUND								
30	196	NOT FOUND								
31	196	NOT FOUND								
32	162	NOT FOUND								
33	65	NOT FOUND								
34	163	NOT FOUND								
35	152	NOT FOUND								
36	138	NOT FOUND								
37	153	NOT FOUND								
38	184	NOT FOUND								
39	139	NOT FOUND								
40	168	NOT FOUND								
41	89	NOT FOUND								
42	165	NOT FOUND								
43	149	NOT FOUND								
44	204	NOT FOUND								
45	166	NOT FOUND								
46	138	NOT FOUND								
47	188	851	12:48	47	1.000	A BV	376840.	40.000	NG	7.02
48	198	NOT FOUND								
49	169	NOT FOUNO								
50	248	NOT FOUND								
51	284	NOT FOUND								
52	266	NOT FOUND								
53	178	NOT FOUND								
54	178	NOT FOUND								
55	149	NOT FOUND								
56	202	NOT FOUND								
57	240	1113	16:44	57	1.000	A BV	291260.	40.000	NG	7.02
58	202	NOT FOUND								
59	149	NOT FOUND								
60	252	NOT FOUND								
61	228	NOT FOUND								
62	149	NOT FOUND								
63	228	NOT FOUND								
64	264	1264	19:01	64	1.000	A BV	241892.	40.000	NG	7.02
65	149	NOT FOUND								
66	252	NOT FOUND								
67	252	NOT FOUND								
68	252	NOT FOUND								
69	276	NOT FOUND								
70	278	NDT FOUND								
71	276	NOT FOUND								
72	112	316	4:45	1	0.756	A BV	247012.	54.274	NG	9.53
73	99	396	5:57	1	0.947	A BV	211448.	35.999	NG	6.32
74	82	470	7:04	15	D.879	A BV	259036.	31.506	NG	5.53
75	172	644	9:41	28	0.911	A BV	298984.	32.761	NG	5.75
76	141	785	11:48	28	1.110	A BV	80920.	94.047	NG	16.51
77	244	1013	15:14	57	0.910	A BB	254904.	42.161	NG	7.40

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	990	14:53	57	0.889	A BV	322784.	38.963	NG	6.84
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:15	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	5:56		10.000			50.00		2.290	
3	6:00		10.000			50.00		1.507	
4	6:02		10.000			50.00		1.257	
5	6:12		10.000			50.00		1.501	
6	6:16		10.000			50.00		1.591	
7	6:30		10.000			50.00		0.681	
8	6:31		10.000			50.00		1.509	
9	6:43		10.000			50.00		1.214	
10	6:44		10.000			50.00		3.377	
11	6:54		10.000			50.00		1.334	
12	6:54		10.000			50.00		1.653	
13	6:56		10.000			50.00		1.043	
14	7:03		10.000			50.00		2.386	
15	7:59	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	7:24		10.000			50.00		0.892	
17	7:30		10.000			50.00		0.200	
18	7:38		10.000			50.00		0.286	
19	7:47		50.000			50.00		0.196	
20	7:45		10.000			50.00		0.482	
21	7:50		10.000			50.00		0.294	
22	7:56		10.000			50.00		0.360	
23	8:01		10.000			50.00		1.006	
24	8:09		10.000			50.00		0.382	
25	8:19		10.000			50.00		0.181	
26	8:54		10.000			50.00		0.449	
27	9:01		10.000			50.00		0.632	
28	10:33	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	9:22		10.000			50.00		0.371	
30	9:29		10.000			50.00		0.437	
31	9:32		50.000			50.00		0.293	
32	9:41		10.000			50.00		1.976	
33	9:56		50.000			50.00		0.556	
34	10:17		10.000			50.00		1.317	
35	10:18		10.000			50.00		1.748	
36	9:55		50.000			50.00		0.364	
37	10:35		10.000			50.00		1.092	
38	10:41		50.000			50.00		0.072	
39	10:50		50.000			50.00		0.993	
40	10:50		10.000			50.00		1.546	
41	10:55		10.000			50.00		0.492	
42	10:21		10.000			50.00		0.282	
43	11:20		10.000			50.00		1.323	
44	11:22		10.000			50.00		0.562	
45	11:20		10.000			50.00		1.172	
46	11:26		50.000			50.00		0.239	
47	12:41	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	11:30		50.000			50.00		0.108	
49	11:33		10.000			50.00		0.747	
50	12:05		10.000			50.00		0.279	
51	12:15		10.000			50.00		0.389	
52	12:33		50.000			50.00		0.232	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
53	12:43		10.000			50.00		1.328	
54	12:47		10.000			50.00		0.979	
55	13:44		10.000			50.00		1.901	
56	14:28		10.000			50.00		1.470	
57	16:34	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	14:47		10.000			50.00		1.333	
59	15:55		10.000			50.00		0.651	
60	16:34		20.000			50.00		0.368	
61	16:34		10.000			50.00		1.220	
62	16:50		10.000			50.00		0.900	
63	16:37		10.000			50.00		0.845	
64	18:46	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	17:41		10.000			50.00		2.278	
66	18:07		10.000			100.00		1.290	
67	18:07		10.000			100.00		1.290	
68	18:40		10.000			50.00		1.138	
69	21:12		10.000			50.00		1.338	
70	21:18		10.000			50.00		1.095	
71	21:56		10.000			50.00		1.085	
72	4:44	1.00	0.742	1.02	54.27	50.00	1.301	1.199	1.09
73	5:56	1.01	0.948	1.00	36.00	50.00	1.114	1.547	0.72
74	7:01	1.01	0.875	1.00	31.51	50.00	0.367	0.582	0.63
75	9:37	1.01	0.906	1.01	32.76	50.00	0.855	1.305	0.66
76	11:43	1.01	1.118	0.99	94.05	50.00	0.231	0.123	1.88
77	15:05	1.01	0.907	1.00	42.16	50.00	0.700	0.830	0.84
78	14:45	1.01	10.000	0.09	38.96	50.00	0.887	1.138	0.78
79	9:44		10.000			50.00		0.314	

CASE#: 4RS west DUE DATE: 6/10/86

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 85040

J1( ) R1) D1) (:1)

J2( ) R2( ) D2( ) (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---054
Compound List---170
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SA6: EPA#: B

GC/MS ANALYSIS

Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/13/86
DFTPP Filename DM860515B11 Disk (3032)
Standard Filename DM860515B11 Disk ( )
Sample Filename GHOR5040C11 Disk ( )

ANALYST(S): Injection 409 Work-up 409

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FN,HL,HN,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SU,CT,CE,PC,OT,NS
ED,IF,LA,DI,CO,RH,DW,DA

Extraneous Peak Search Results:
# of Peaks Found: 0

Disposition:
( ) Complete
( ) Reinjection required
( ) Reextraction required
( ) Dilute (:1)
( ) Reinject Neat
( ) Send to QA

Quality Assurance Notice(s):
Notices Required 2

COMMENTS: pc20 5/16

GC/MS Review LGmoles Date 5/16/86 Auditor _____ Date __/__/__

REPORT INTEGRATION Total # of injections: 1

Final Reportable Package(s): _____

QA COMMENTS:

Initials _____ Date __/__/__

FINAL REVIEW: Initials _____ Date __/__/__

EPAUNTEY (11/84)

COMPUCHEM # 085040 PILE: GH085040C16 COMPOUND LIST 170 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	418	152000.	40.0		
610	94		PHENOL (Q1#3) <108-95-2>				BDL	20.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20.
601	128		2-CHLOROPHENOL (Q1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	20.
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	20.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20.
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	20.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20.
460	136	I	D8-NAPHTHALENE (IS#2)	535	565000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	20.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20.
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	20.
439	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	20.
74	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	20.
58	107		P-CHLORO-M-CRESOL (Q2#12) <				BDL	20.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	707	280000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	20.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (Q3#10) <83-32				BDL	20.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	100.
607	139		4-NITROPHENOL (Q3#12) <100-				BDL	100.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (Q3#14)				BDL	20.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (Q3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	851	377000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
3	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (Q4#6) <8				BDL	100.
444	178		PHENANTHRENE (Q4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (Q4#8) <120-12-7				BDL	20.

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20.
459	240	I	D12-CHRYSENE (IS#5)	1113	291000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>				BDL	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				SDL	20.
497	264	I	D12-PERYLENE (IS#6)	1264	242000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			54.3	54.%	
612	99	S	D5-PHENOL (SS#2)			36.0	36.%	
447	82	S	D5-NITROBENZENE (SS#3)			31.5	63.%	
448	172	S	2-FLUORODIPHENYL (SS#4)			32.8	66.%	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			94.0	94.%	
496	244	S	D14-TERPHENYL (SS#6)			42.2	84.%	
471	212	S	D10-PYRENE			39.0	78.%	
36	216		1,2,3,4 TETRACHLOROBENZENE				BDL	20.
CHECKSUMS:								
6593.	2206			4888	1907000.	569.8	475.	

SEMI-VOLATILE - LIQUID

)	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTRDL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	54.3	100.0	54.	21-100	X	
73	612	D5-PHENOL (SS#2)	36.0	100.0	36.	10- 84	X	
74	447	D5-NITROBENZENE (SS#3)	31.5	50.0	63.	38-114	X	
75	448	2-FLUOROBIPHENYL (SS#4)	32.8	50.0	66.	43-116	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	94.0	100.0	94.	10-123	X	
77	496	D14-TERPHENYL (SS#6)	42.2	50.0	84.	33-141	X	
78	471	D10-PYRENE	39.0	50.0	78.	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1000.ML}}{\text{1000.ML}} \times \frac{\text{1.0}}{\text{1}} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1000 UL}}{\text{1000 UL}} \times \frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1.0}}{\text{1}} \times 2 = 2.000$$

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: Audrey (AN)

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84972	-56	URSWEST	—	BS		500ml		0.5	0.5		13	1	5/13	0.5ml of surrogate and spikes added and samples were concentrated to 0.5ml. Samples were diluted to 1000ml with distilled water. M.P.
84973			—	SS	84981	500ml		0.5	0.5		13	1	5/13	
84974			—	SS	84981	500ml		0.5	0.5		13	1	5/13	
84967			—			1000ml		1.0	1.0		13	1	5/13	
84977			—			1000ml		1.0	1.0		13	1	5/13	
84980			—			1000ml		1.0	1.0		13	1	5/13	
84981			—			1000ml		1.0	1.0		13	1	5/13	
84984			—			1000ml		1.0	1.0		13	1	5/13	
84985			—			1000ml		1.0	1.0		13	1	5/13	
84900			—			1000ml		1.0	1.0		13	1	5/13	
85040				BI		1000ml		1.0	1.0		13	1	5/13	
85041	↓	↓		B2		1000ml		1.0	1.0		13	1	5/13	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	1.0ml					
	LOT	17566					
SPIKE	NO.		3012	2021			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17977			

MANUAL COUNTER 272/967

FINAL VOLUME VERIFIED Ah

SUPERVISOR REVIEWED M.P.

EXTRACTS RECEIVED BY Mdy 5-13-86

I mixed 5/13/86 2N

№ 9776

Sample Number
A,A(BC)MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CW084970819
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS West
QC Report No: _____
Contract No: Platinum
Date Sample
Received: 5-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-14-86
Date analyzed: 5-14-86
Conc/Dil Factor: 1.00 pH: N/A
Percent moisture (not decanted): N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
74-83-9	Bromomethane	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl Chloride	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10.	U	79-00-5	1,1,2-Trichloroethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	71-43-2	Benzene	5.0	U
67-64-1	Acetone	10.	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-4	1,1-Dichloroethene	5.0	U	75-25-2	Bromoform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	127-18-4	Tetrachloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit then report the value.

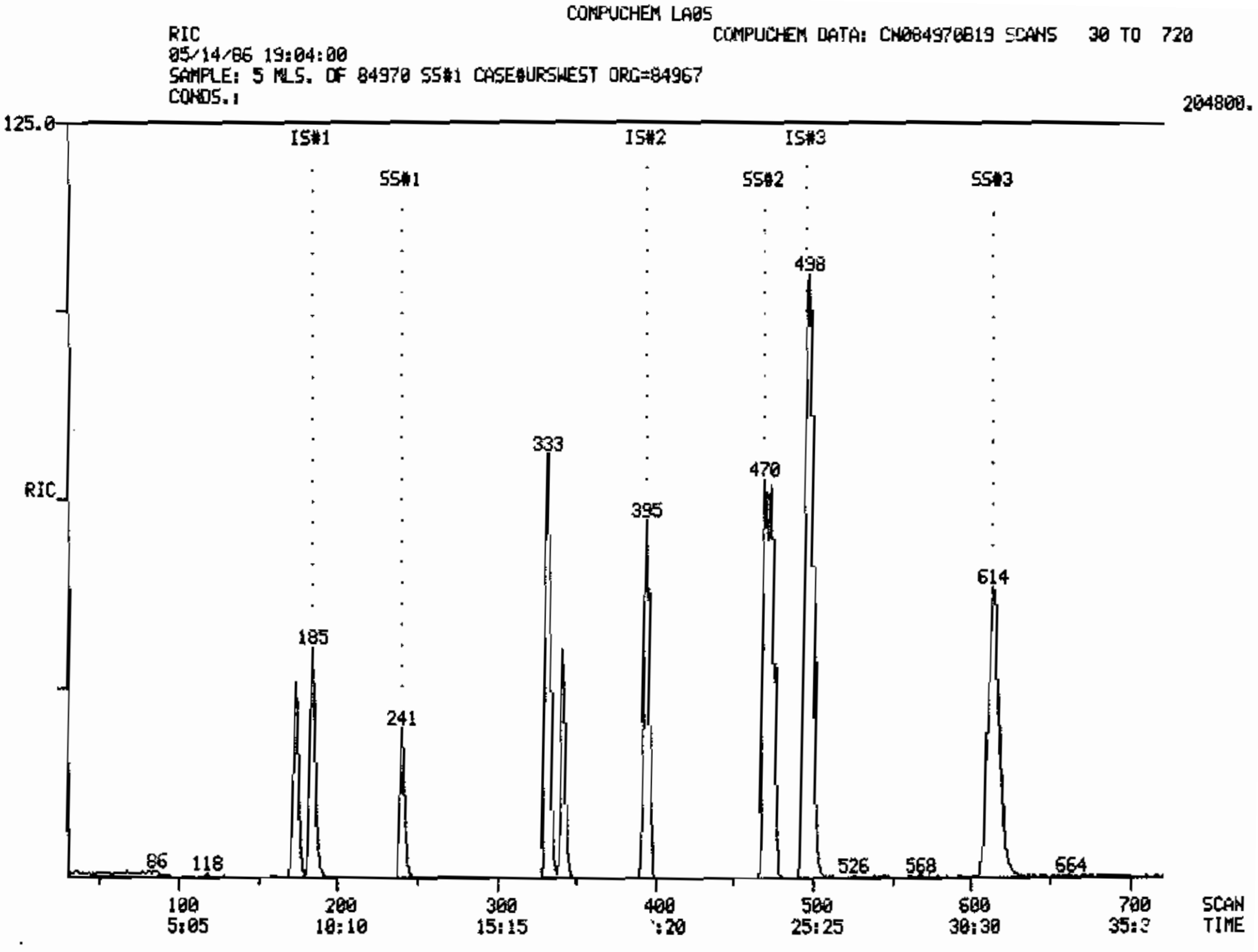
U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.


COMPUCHEM LA05
RIC
COMPUCHEM DATA: CN084970B19 SCANS 30 TO 720
05/14/86 19:04:00
SAMPLE: 5 ML'S. OF 84970 SS#1 CASE#URSWEST ORG=84967
CONDS.:
204800.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
498
333
470
395
614
185
241
RIC
86
118
526
568
664
100
200
300
400
500
600
700
5:05
10:10
15:15
:20
25:25
30:30
35:?
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E237 FILENAME: CN084970819 DATE: 05/14/86
SHIFT STD: CS860514B19 TIME: 19:04

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1	38554.	46117.	-16.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1	169428.	198683.	-15.	PASS
*270 D5-CHLOROBENZENE (IS) E3#1	162887.	189582.	-14.	PASS

```
QUANTITATION REPORT     FILE: CN084970B19

DATA: CN084970B19.TI
05/14/86 19:04:00
 \MPLE: 5 ML6. OF 84970 6S#1 CASE#URSWEST ORG=84967
.ONDS.:
SUBMITTED BY: 19              ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
  2   221 CHLOROMETHANE <74-87-3> E1#2
  3   220 BROMOMETHANE <78-83-9> E1#3
  4   231 VINYL CHLORIOE <75-01-4> E1#4
  5   209 CHLOROETHANE <75-00-3> E1#5
  6   222 METHYLENE CHLORIDE <75-09-2> E1#6
  7   252 ACETONE (2-PROPANONE) <67-64-1> E1#7
  8   254 CARBON DISULFIDE <75-15-0> E1#8
  9   216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
 10   214 1,1-DICHLOROETHANE <75-34-3> E1#10
 11   226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
 12   211 CHLOROFORM <67-66-3> E1#12
 13   215 1,2-DICHLOROETHANE <107-06-2> E1#13
 14  *248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
 15   253 2-BUTANONE <78-93-3> E2#2
 16   227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
 17   206 CARBON TETRACHLORIDE <56-23-5> E2#4
 18   257 VINYL ACETATE <108-05-4> E2#5
  9   212 BROMODICHLOROMETHANE <75-27-4> E2#6
 20   217 1,2-DICHLOROPROPANE <78-87-5> E2#7
 21   250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
 22   229 TRICHLOROETHYLENE <79-01-6> E2#9
 23   208 CHLORODIBROMOMETHANE <124-46-1> E2#10
 24   228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
 25   203 BENZENE <71-43-2> E2#12
 26   218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
 27   210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
 28   205 BROMOFORM <75-25-2> E2#15
 29  *270 D5-CHLOROBENZENE (IS) E3#1
 30   256 4-METHYL-2-PENTANONE <108-10-1> E3#2
 31   255 2-HEXANONE <591-78-6> E3#3
 32   224 TETRACHLOROETHENE <127-18-4> E3#4
 33   223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
 34   225 TOLUENE <108-88-3> E3#6
 35   207 CHLOROBENZENE <108-90-7> E3#7
 36   219 ETHYLBENZENE <100-41-4> E3#8
 37   251 STYRENE <100-42-5> E3#9
 38   240 M-XYLENE E3#10
 39   271 O,P-XYLENE E3#11
 40  #258 D4-1,2-DICHLOROETHANE E4#2
 41  #247 BROMOFLUOROBENZENE <460-00-4> E4#3
 42  #233 D8-TOLUENE E4#4

 NO  M/E  SCAN   TIME  REF   RRT  METH     AREA(HGHT)  AMOUNT          %TOT
  1  128   184   9:21   1  1.000  A BV       38554.    50.000 UG/L     8.87
  2   50  NOT FOUND
```

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	118	6:00	1	0.641	A BB	816.	1.173	UG/L	0.21 no
7	43	128	6:30	1	0.696	A BB	616.	6.109	UG/L	1.08 no
8	76	NOT FOUND								
9	96	174	8:51	1	0.946	A BB	41436.	48.265	UG/L	8.56 yo
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	394	20:02	14	1.000	A BB	169428.	50.000	UG/L	8.87
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	332	16:53	14	0.843	A BB	78189.	52.257	UG/L	9.27 yo
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	342	17:23	14	0.868	A BV	100785.	52.519	UG/L	9.32 yo
26	75	NOT FOUNO								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	496	25:13	29	1.000	A BV	162887.	50.000	UG/L	8.87
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	474	24:06	29	0.956	A BB	95062.	52.496	UG/L	9.31 yo
35	112	499	25:22	29	1.006	A BV	158976.	54.573	UG/L	9.68 yo
36	106	NOT FOUND								
37	104	NOT FOUNO								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	241	12:15	1	1.310	A BV	50969.	45.114	UG/L	8.00
41	95	615	31:16	29	1.240	A BB	144881.	50.366	UG/L	8.94
42	98	470	23:53	1	2.554	A BB	148922.	50.839	UG/L	9.02

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.971	
3	2:23		10.000			50.00		1.729	
4	3:03		10.000			50.00		1.079	
5	3:52		10.000			50.00		0.582	
6	5:57	1.01	5.000	0.13	1.17	50.00	0.021	0.902	0.02
7	6:30	1.00	10.000	0.07	6.11	50.00	0.016	0.131	0.12
8	7:31		5.000			50.00		1.826	
9	8:51	1.00	5.000	0.19	48.27	50.00	1.075	1.113	0.97
10	10:13		5.000			50.00		1.290	
11	10:56		5.000			50.00		1.107	
12	11:35		5.000			50.00		2.374	
13	12:21		5.000			50.00		1.434	
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:12		10.000			50.00		0.012	
16	13:43		5.000			50.00		0.528	
17	14:08		5.000			50.00		0.637	
18	14:14		10.000			50.00		0.156	
19	14:41		5.000			50.00		0.518	
20	16:04		5.000			50.00		0.226	
21	16:19		5.000			50.00		0.323	
22	16:53	1.00	5.000	0.17	52.26	50.00	0.461	0.442	1.05
23	17:35		5.000			50.00		0.535	
24	17:41		5.000			50.00		0.306	
25	17:23	1.00	5.000	0.17	52.52	50.00	0.595	0.566	1.05
26	17:41		5.000			50.00		0.228	
27	18:45		10.000			50.00		0.104	
28	20:26		5.000			50.00		0.335	
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:50		10.000			50.00		0.142	
31	22:25		10.000			50.00		0.091	
32	22:46		5.000			50.00		0.468	
33	22:49		5.000			50.00		0.422	
34	24:06	1.00	5.000	0.19	52.50	50.00	0.584	0.556	1.05
35	25:22	1.00	5.000	0.20	54.57	50.00	0.976	0.894	1.09
36	27:51		5.000			50.00		0.452	
37	33:12		5.000			50.00		0.908	
38	33:36		5.000			50.00		0.597	
39	34:58		5.000			100.00		0.576	
40	12:15	1.00	10.000	0.13	45.11	50.00	1.322	1.465	0.90
41	31:16	1.00	10.000	0.12	50.37	50.00	0.889	0.883	1.01
42	23:53	1.00	10.000	0.26	50.84	50.00	3.863	3.799	1.02

LAB INSTRUCTIONS:

CASE#: URS WEST DUE DATE: 6/10/86

VOA
GC/MS WORKSHEET COMPUCHEM#: 84970

J1[ ] J3[ ] D1[ ] (:1)
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID

QC

Sample Prep Code---000
Instrument Code----256
Compound List------145
Surrogate Std------394
Internal Std-------036

SAMPLE ID: SS 291 /539

GC/MS ANALYSIS

Amount Purged: [ ] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860514B.C9 Disk B017)
Blank Filename CB860514B.C9 Disk ( )
Standard Filename CS860514B.C9 Disk ( )
Sample Filename CN084970B19 Disk ( )

ANALYST(S): Injection 941 Work-up_____

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,OW,SI,SF
UP,BB,OT,VC,FD,SM

Disposition: [ ] Complete
[ ] Reinject Neat
[ ] Dilute ? :1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____
COMMENTS:

GC/MS Review SAB Date 5/15/86 Auditor_____ Date___/___/___

REPORY INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN084970B19

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC386 (11/84)

SAB 5/16

COMPUCHEM # 084970 FILE: CN084970B19 COMPOUND LIST 145 PAGE 1
VOLATILE - MEDIUM OR LOW LEVEL LIQUID

P #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS) <75	184	386D0.	50.0		
221	50		CHLORBMETHANE <74-87-3> E1#				BDL	10.
220	94		BROMOMETHANE <78-83-9> E1#3				BDL	10.
231	62		VINYL CHLORIDE <75-01-4> E1				BDL	10.
209	64		CHLOROETHANE <75-00-3> E1#5				BDL	10.
222	84		METHYLENE CHLORIDE <75-09-2			1.2	JBDL	5.
252	43		ACETONE (2-PROPANONE) <67-6			6.1	JBDL	10.
254	76		CARBON DISULFIDE <75-15-0>				BDL	5.
216	96		1,1-DICHLOROETHYLENE <75-35			48.3	48.	5.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	5.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	5.
211	83		CHLOROFORM <67-66-3> E1#12				BDL	5.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	5.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	394	169000.	50.0		
253	72		2-BUTANONE <78-93-3> E2#2				BDL	10.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	5.
206	117		CARBON TETRACHLORIDE <56-23				BDL	5.
257	43		VINYL ACETATE <108-05-4> E2				BDL	10.
212	83		BROMODICHLOROMETHANE <75-27				BDL	5.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	5.
229	130		TRICHLOROETHYLENE <79-01-6>			52.2	52.	5.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	5.
8	97		1,1,2-TRICHLOROETHANE <79-0				BDL	5.
203	78		BENZENE <71-43-2> E2#12			52.5	52.	5.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	10.
205	173		BROMOFORM <75-25-2> E2#15				BDL	5.
270	117	I	D5-CHLOROBENZENE (IS) E3#1	496	163000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	10.
255	43		2-HEXANONE <591-78-6> E3#3				BDL	10.
224	164		TETRACHLOROETHENE <127-18-4				BDL	5.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	5.
225	92		TOLUENE <108-88-3> E3#6			52.5	52.	5.
207	112		CHLOROBENZENE <108-90-7> E3			54.6	55.	5.
219	106		ETHYLBENZENE <100-41-4> E3#				BDL	5.
251	104		STYRENE <100-42-5> E3#9				BDL	5.
240	106		M-XYLENE E3#10				BDL	5.
271	106		O,P-XYLENE E3#11				BDL	5.
258	65	S	D4-1,2-DICHLOROETHANE E4#2			45.1	90.%	
247	95	S	BROMOFLUOROBENZENE <460-00-			50.4	101.%	
233	98	S	D8-TOLUENE E4#4			50.8	102.%	
CHECKSUMS:								
3044.	1252			1074	370600.	563.7	552.	

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E4#2	45.1	50.0	90.	76-114	X	
41	247	BROMOFLUOROBENZENE <460-00-	50.4	50.0	101.	86-115	X	
42	233	D8-TOLUENE E4#4	50.8	50.0	102.	88-110	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P P

INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS ✓ —

CORRECTION FACTOR CALCULATION:

$$\frac{5000\ \text{UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000\ \text{UL}}{5000.\ (\text{UL})} = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

Sample Number
D MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GH084973E16
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS West
QC Report No: _____
Contract No: Platinum
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: N/A
Date analyzed: N/A
Conc/Dil Factor: 1.00 pH:
Percent moisture (not decanted): N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
74-83-9	Bromomethane	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl Chloride	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10.	U	79-00-5	1,1,2-Trichloroethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	71-43-2	Benzene	5.0	U
67-64-1	Acetone	10.	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-4	1,1-Dichloroethene	5.0	U	75-25-2	Bromoform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	127-18-4	Tetrachloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
: URS West

Sample Number
9 MS

Organics Analysis Data Sheet
(Page 2)

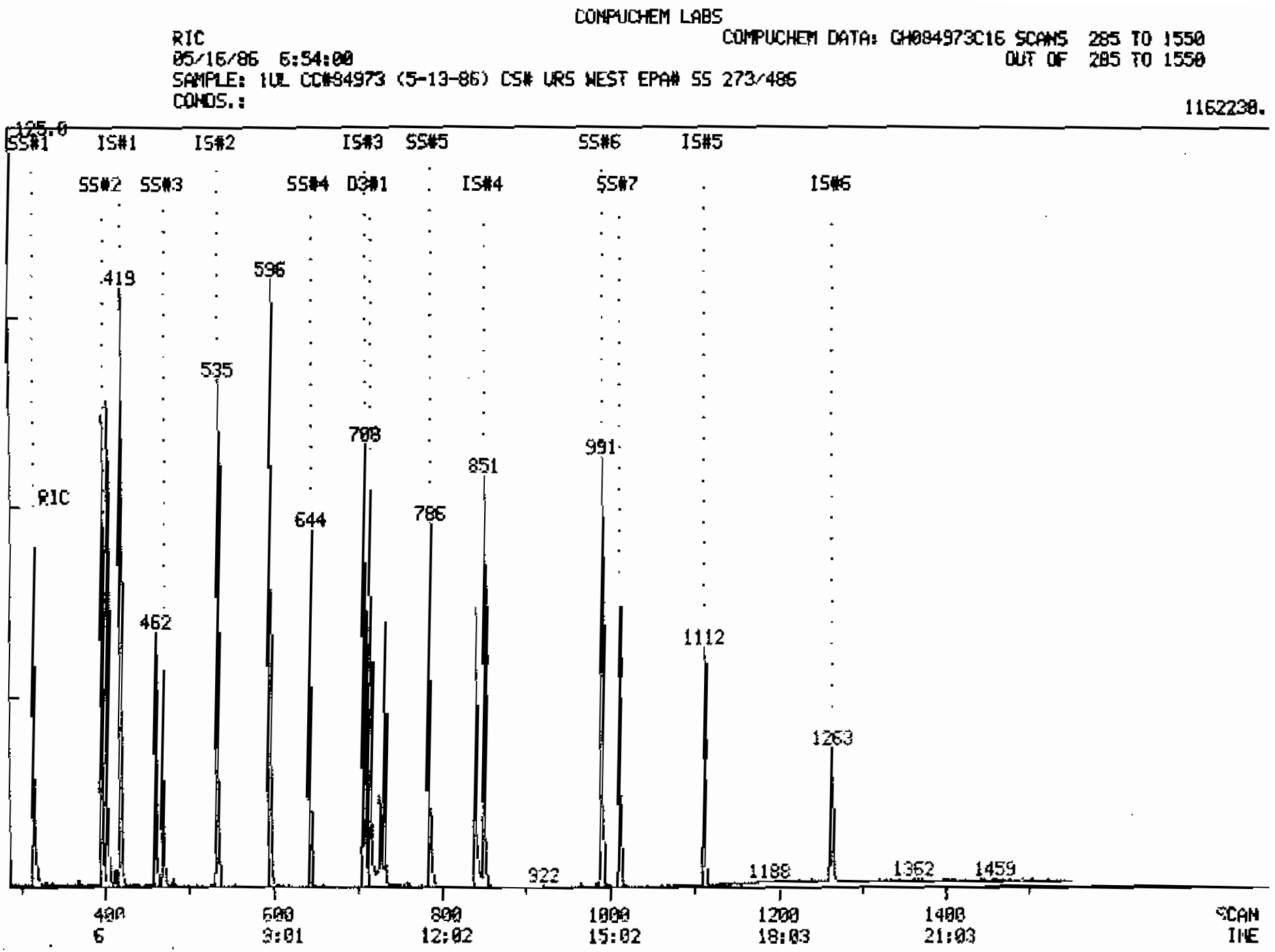
Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-16-86
Conc/Dil Factor: 2.00
Percent moisture (decanted): N/A

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/l		CAS Number		ug/l	
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20.	U	132-64-9	Dibenzofuran	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	84-66-2	Diethylphthalate	20.	U
95-48-7	2-Methylphenol	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	86-73-7	Fluorene	20.	U
106-44-5	4-Methylphenol	20.	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
67-72-1	Hexachloroethane	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
98-95-3	Nitrobenzene	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
78-59-1	Isophorone	20.	U	118-74-1	Hexachlorobenzene	20.	U
88-75-5	2-Nitrophenol	20.	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20.	U	85-01-8	Phenanthrene	20.	U
65-85-0	Benzoic Acid	100	U	120-12-7	Anthracene	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	84-74-2	Di-n-butylphthalate	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	206-44-0	Fluoranthene	20.	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U
99-09-2	3-Nitroaniline	100	U				

(1) Cannot be separated from diphenylamine


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH084973C16 SCANS 285 TO 1550
05/16/86 6:54:00
OUT OF 285 TO 1550
SAMPLE: 1UL CC#84973 (5-13-86) CS# URS WEST EPA# 55 273/486
COMDS.:
1162230.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
419
596
535
700
991
851
RIC
644
786
462
1112
1263
922
1188
1362
1459
400
600
800
1000
1200
1400
SCAN
6
9:01
12:02
15:02
18:03
21:03
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI2 FILENAME: GH084973C16 DATE: 05/16/86
SHIFT STD: HH860515B16 TIME: 6:54

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	142480.	122060.	17.	PASS
*460 D8-NAPHTHALENE (IS#2)	509992.	478332.	7.	PASS
*495 D10-ACENAPHTHENE (IS#3)	270488.	253664.	7.	PASS
*467 D10-PHENANTHRENE (IS#4)	332420.	259140.	28.	PASS
*459 D12-CHRYSENE (IS#5)	257800.	250904.	3.	PASS
*497 D12-PERYLENE (IS#6)	208916.	171412.	22.	PASS

5-19-86

QUANTITATION REPORT FILE: GH084973C16

DATA: GH084973C16.TI
05/16/86 6:54:00
SAMPLE: 1UL CC#84973 (5-13-86) CS# URS WEST EPA# SS 273/486
  NOS.:
SUBMITTED BY: 16 ANALYST: 619

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	#494 D4-1,4-DICHLOROBENZENE (IS#1)
2	610 PHENOL (G1#3) <108-95-2>
3	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
4	601 2-CHLOROPHENOL (G1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
7	474 BENZYL ALCOHOL (G1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
9	620 2-METHYLPHENOL (G1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
11	622 4-METHYLPHENOL (G1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
13	436 HEXACHLOROETHANE (G1#15) <67-72-1>
14	440 NITROBENZENE (G1#16) <98-95-3>
15	#460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (G2#2) <78-59-1>
17	606 2-NITROPHENOL (G2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
19	625 BENZOIC ACID (G2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
23	439 NAPHTHALENE (G2#9) <91-20-3>
24	475 4-CHLOROANILINE (G2#10) <106-47-8>
25	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
28	#495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
33	478 2-NITROANILINE (G3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
35	402 ACENAPHTHYLENE (G3#8) <208-96-8>
36	479 3-NITROANILINE (G3#9) <99-09-2>
37	401 ACENAPHTHENE (G3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (G3#11) <51-28-5>
39	607 4-NITROPHENOL (G3#12) <100-02-7>
40	476 DIBENZOFURAN (G3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
45	432 FLUORENE (G3#18) <86-73-7>
46	480 4-NITROANILINE (G3#19) <100-01-6>

NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
0	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
1	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
53	444 PHENANTHRENE (G4#7) <85-01-8>
54	403 ANTHRACENE (G4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
56	431 FLUORANTHENE (G4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (G5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
63	418 CHRYSENE (G5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
68	406 BENZO(A)PYRENE (G6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4 TETRACHLOROBENZENE

ND	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT	
1	152	419	6:18	1	1.000	A BB	142480.	40.000 NG	4.56	
2	94	397	5:58	1	0.947	A BB	179544.	22.012 NG	2.51	Yes
3	93	403	6:04	1	0.962	A BB	8268.	1.540 NG	0.18	No
4	128	403	6:04	1	0.962	A BV	245752.	54.883 NG	6.25	Yes
5	146	420	6:19	1	1.002	A BB	130880.	24.474 NG	2.79	No
6	146	420	6:19	1	1.002	A BB	130880.	23.098 NG	2.63	Yes
7	108	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	45	NOT FOUND								
11	108	NOT FOUND								
12	70	462	6:57	1	1.103	A BB	120800.	20.513 NG	2.34	Yes
13	117	NOT FOUND								
14	77	NOT FOUND								
15	136	535	8:03	15	1.000	A BV	509992.	40.000 NG	4.56	
16	82	NOT FOUND								
17	139	NOT FOUND								
18	122	NOT FOUND								
19	122	NOT FOUND								
20	93	NOT FOUND								
	162	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT	
22	180	532	8:00	15	0.994	A BB	107500.	23.413	NG	2.67	Yes
23	128	NOT FOUND									
24	127	NOT FOUND									
5	225	NOT FOUND									
26	107	596	8:58	15	1.114	A BV	256568.	44.854	NG	5.11	Yes
27	142	NOT FOUND									
28	164	707	10:38	28	1.000	A BB	270488.	40.000	NG	4.56	
29	237	NOT FOUND									
30	196	NOT FOUND									
31	196	NOT FOUND									
32	162	NOT FOUND									
33	65	NOT FOUND									
34	163	NOT FOUND									
35	152	NOT FOUND									
36	138	NOT FOUND									
37	153	710	10:41	28	1.004	A BB	188000.	25.464	NG	2.90	Yes
38	184	NOT FOUND					5981	23.586			
39	~~109~~	726	10:55	28	1.027	A BV	~~32128.~~	~~4.782~~	NG	0.54	Yes
40	168	NOT FOUND									
41	89	732	11:01	28	1.035	A BB	102300.	30.759	NG	3.50	Yes
42	165	NOT FOUND									
43	149	NOT FOUND									
44	204	NOT FOUND									
45	166	NOT FOUND									
46	138	NOT FOUND									
47	188	851	12:48	47	1.000	A BV	332420.	40.000	NG	4.56	Yes
48	198	NOT FOUND									
49	169	NOT FOUND									
50	248	NOT FOUND									
!	284	NOT FOUND									
52	266	841	12:39	47	0.988	A BV	74808.	38.838	NG	4.42	Yes
53	178	NOT FOUND									
54	178	NOT FOUND									
55	149	NOT FOUND									
56	202	NOT FOUND									
57	240	1112	16:44	57	1.000	A BV	257800.	40.000	NG	4.56	
58	202	992	14:55	57	0.892	A VV	394948.	45.972	NG	5.24	Yes
59	149	NOT FOUND									
60	252	NOT FOUND									
61	228	NOT FOUND									
62	149	NOT FOUND									
63	228	NOT FOUND									
64	264	1263	19:00	64	1.000	A BV	208916.	40.000	NG	4.56	
65	149	NOT FOUND									
66	252	NOT FOUND									
67	252	NOT FOUND									
68	252	NOT FOUND									
69	276	NOT FOUND									
70	278	NOT FOUND									
71	276	NOT FOUND									
72	112	316	4:45	1	0.754	A BV	160952.	37.693	NG	4.29	
73	99	397	5:58	1	0.947	A BV	152692.	27.708	NG	3.16	
74	82	471	7:05	15	0.880	A BV	182956.	24.667	NG	2.81	
75	172	644	9:41	28	0.911	A BV	222408.	25.197	NG	2.87	
76	141	786	11:49	28	1.112	A BV	62540.	75.150	NG	8.56	
'	244	1012	15:13	57	0.910	A BV	232280.	43.405	NG	4.94	

(W) * secondary ion calculation necessary due to

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	990	14:53	57	0.890	A VV	319848.	43.620	NG	4.97
79	216	NOT FOUND								

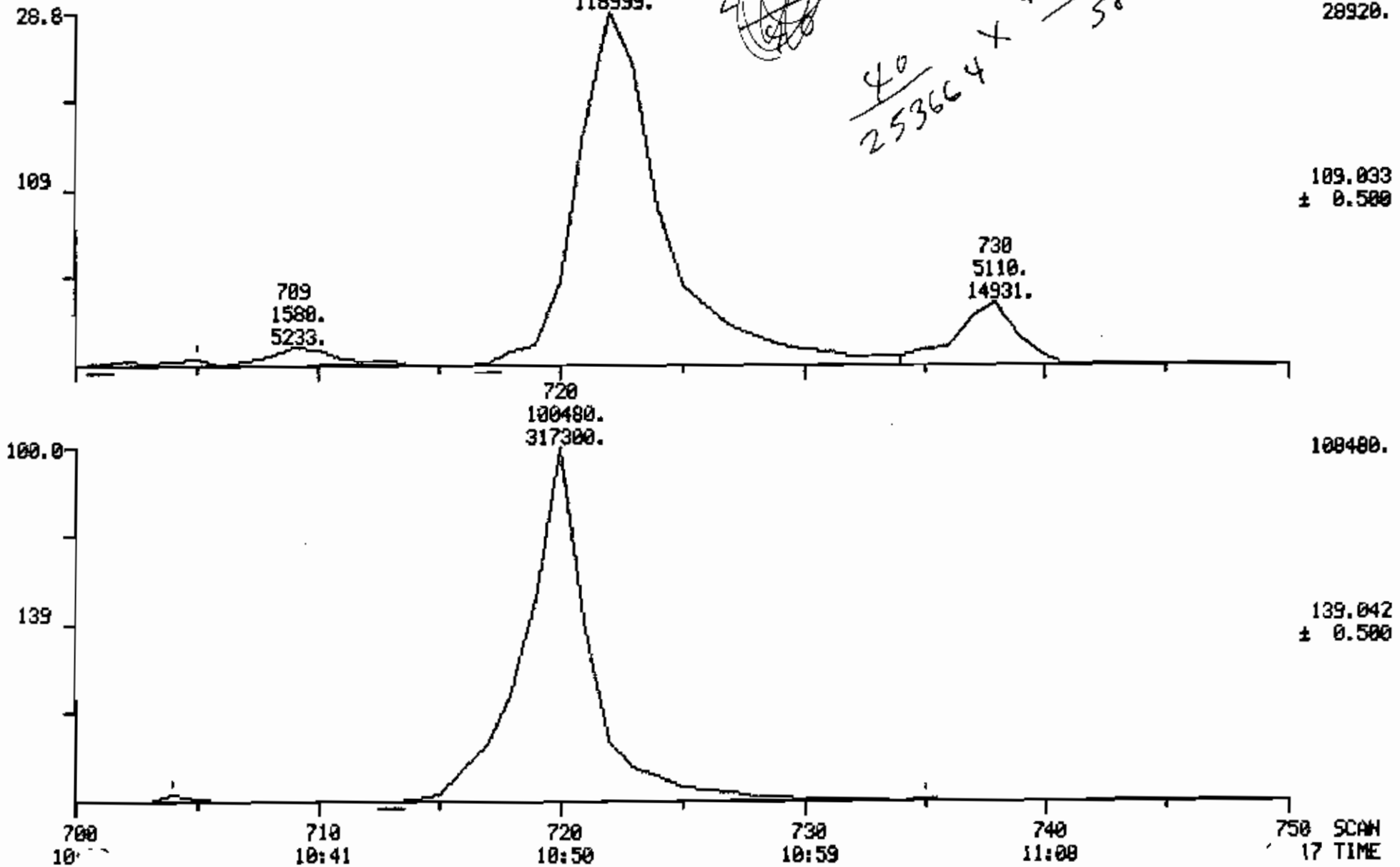
J	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:15	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	5:56	1.01	10.000	0.09	22.01	50.00	1.008	2.290	0.44
3	6:00	1.01	10.000	0.10	1.54	50.00	0.046	1.507	0.03
4	6:02	1.00	10.000	0.10	54.88	50.00	1.380	1.257	1.10
5	6:12	1.02	10.000	0.10	24.47	50.00	0.735	1.501	0.49
6	6:16	1.01	10.000	0.10	23.10	50.00	0.735	1.591	0.46
7	6:30		10.000			50.00		0.681	
8	6:31		10.000			50.00		1.509	
9	6:43		10.000			50.00		1.214	
10	6:44		10.000			50.00		3.377	
11	6:54		10.000			50.00		1.334	
12	6:54	1.01	10.000	0.11	20.51	50.00	0.678	1.653	0.41
13	6:56		10.000			50.00		1.043	
14	7:03		10.000			50.00		2.386	
15	7:59	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	7:24		10.000			50.00		0.892	
17	7:30		10.000			50.00		0.200	
18	7:38		10.000			50.00		0.286	
19	7:47		50.000			50.00		0.196	
20	7:45		10.000			50.00		0.482	
21	7:50		10.000			50.00		0.294	
22	7:56	1.01	10.000	0.10	23.41	50.00	0.169	0.360	0.47
23	8:01		10.000			50.00		1.006	
24	8:09		10.000			50.00		0.382	
25	8:19		10.000			50.00		0.181	
\	8:54	1.01	10.000	0.11	44.85	50.00	0.402	0.449	0.90
/	9:01		10.000			50.00		0.632	
28	10:33	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	9:22		10.000			50.00		0.371	
30	9:29		10.000			50.00		0.437	
31	9:32		50.000			50.00		0.293	
32	9:41		10.000			50.00		1.976	
33	9:56		50.000			50.00		0.556	
34	10:17		10.000			50.00		1.317	
35	10:18		10.000			50.00		1.748	
36	9:55		50.000			50.00		0.364	
37	10:35	1.01	10.000	0.10	25.46	50.00	0.556	1.092	0.51
38	10:41		50.000			50.00		0.072	
39	10:50	1.01	50.000	0.02	4.78	50.00	0.095	0.993	0.10
40	10:50		10.000			50.00		1.546	
41	10:35	1.01	10.000	0.10	30.76	50.00	0.303	0.492	0.62
42	10:21		10.000			50.00		0.282	
43	11:20		10.000			50.00		1.323	
44	11:22		10.000			50.00		0.562	
45	11:20		10.000			50.00		1.172	
46	11:26		50.000			50.00		0.239	
47	12:41	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	11:30		50.000			50.00		0.108	
49	11:33		10.000			50.00		0.747	
50	12:05		10.000			50.00		0.279	
51	12:15		10.000			50.00		0.389	
	12:33	1.01	50.000	0.02	38.84	50.00	0.180	0.232	0.78

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	12:43		10.000			50.00		1.328	
54	12:47		10.000			50.00		0.979	
55	13:44		10.000			50.00		1.901	
56	14:28		10.000			50.00		1.470	
57	16:34	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	14:47	1.01	10.000	0.09	45.97	50.00	1.226	1.333	0.92
59	15:55		10.000			50.00		0.651	
60	16:34		20.000			50.00		0.368	
61	16:34		10.000			50.00		1.220	
62	16:50		10.000			50.00		0.900	
63	16:37		10.000			50.00		0.845	
64	18:46	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	17:41		10.000			50.00		2.278	
66	18:07		10.000			100.00		1.290	
67	18:07		10.000			100.00		1.290	
68	18:40		10.000			50.00		1.138	
69	21:12		10.000			50.00		1.338	
70	21:18		10.000			90.00		1.095	
71	21:56		10.000			90.00		1.085	
72	4:44	1.00	0.742	1.02	37.69	50.00	0.904	1.199	0.75
73	5:56	1.01	0.948	1.00	27.71	50.00	0.857	1.547	0.55
74	7:01	1.01	0.875	1.01	24.67	50.00	0.287	0.582	0.49
75	9:37	1.01	0.906	1.01	25.20	50.00	0.658	1.305	0.50
76	11:43	1.01	1.118	0.99	75.15	50.00	0.185	0.123	1.50
77	15:05	1.01	0.907	1.00	43.41	50.00	0.721	0.830	0.87
78	14:45	1.01	10.000	0.09	43.62	50.00	0.993	1.138	0.87
79	9:44		10.000			50.00		0.314	

COMPUCHEM LABS

MASS CHROMATOGRAMS
05/15/86 20:53:00
SAMPLE: 1 UL STD #2375 (17701+17467)-50 NG.
CONDS.:

COMPUCHEM DATA: HH860515B16 SCANS 700 TO 750



COMPUCHEM LABS

MASS CHROMATOGRAMS
05/16/86 6:54:00
SAMPLE: 1UL CC#94973 (5-13-86) CS# URS WEST EPA# SS 273/486
CONDS.:

COMPUCHEM DATA: GH084973C16 SCANS 720 TO 750

726
19838.
59811.

100.0
19840.
109
109.033
± 0.500

$\frac{40}{270488} \uparrow \frac{59811}{0.375} =$

726
11296.
34908.

56.9
11296.
139
139.042
± 0.500

720 10:50 | 725 10:54 | 730 10:59 | 735 11:[illegible] | 740 11:08 | 745 11:12 | 750 SCAN TIME

LAB INSTRUCTIONS:

CASE#: URS WEST DUE DATE: 6/10/86

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 84973

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID

QC

Sample Prep Code---056
Instrument Code----254
Compound List------170
Surrogate Std------392
Internal Std-------035

SAMPLE ID/EPA#: 55 273/486

GC/MS ANALYSIS

Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/13/86
DFTPP Filename DN86051516 Disk (3032)
Standard Filename AA86051516 Disk ( )
Sample Filename GH084973C16 Disk ( )

[redacted]

ANALYST(S): Injection WS Work-up WS

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS ED,IF,LA,OI,CD,RN,DW,DA

pk20 5 lq

Disposition:
[X] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 0

# of Hits: 11

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 0

GC/MS Review [signature] Date 5/19/86 Auditor [signature] Date 5/19/86

REPORT INTEGRATION Total # of Injections:

Final Reportable Package(s): /

QA COMMENTS:

Initials [signature] Date / /

FINAL REVIEW: Initials [signature] Date / /

AC383 (11/84)

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	419	142000.	40.0		
610	94		PHENOL (G1#3) <108-95-2>			22.0	44.	20.
411	93		BIS(2-CHLOROETHYL)ETHER (G1			~~1.5~~	~~3~~ BDL	20.
601	128		2-CHLOROPHENOL (G1#6) <95-5			54.9	110.	20.
421	146		1,3-DICHLOROBENZENE (G1#7)			~~24.5~~	~~49~~ BDL	20.
422	146		1,4-DICHLOROBENZENE (G1#8)			23.1	46.	20.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	20.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	20.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE			20.5	41.	20.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	20.
440	77		NITROBENZENE (G1#16) <98-95				BDL	20.
460	136	I	D8-NAPHTHALENE (IS#2)	535	510000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	20.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	20.
446	180		1,2,4-TRICHLOROBENZENE (G2#			23.4	47.	20.
439	128		NAPHTHALENE (G2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	20.
[illegible]4	225		HEXACHLOROBUTADIENE (G2#11)				BDL	20.
3	107		P-CHLORO-M-CRESOL (G2#12) <			44.8	90.	20.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	707	270000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	100.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	20.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	20.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (G3#10) <83-32			25.5	51.	20.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	100.
607	139		4-NITROPHENOL (G3#12) <100-			4.8	J	100.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (G3#14)			30.8	62.	20.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (G3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	851	332000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
9	284		HEXACHLOROBENZENE (G4#5) <1				BDL	20.
[illegible]9	266		PENTACHLOROPHENOL (G4#6) <8			38.8	J	100.
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20.

CMP	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20.
459	240	I	D12-CHRYSENE (IS#5)	1112	258000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>			46.0	92.	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1263	209000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			37.7	38. %	
612	99	S	D5-PHENOL (S8#2)			27.7	28. %	
447	82	S	D5-NITROBENZENE (SS#3)			24.7	49. %	
448	172	S	2-FLUOROBIPHENYL (SS#4)			25.2	50. %	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			75.2	75. %	
496	244	S	D14-TERPHENYL (SS#6)			43.4	87. %	
471	212	S	D10-PYRENE			43.6	87. %	
5	216		1,2,3,4 TETRACHLOROBENZENE				BDL	20.
ECKSUMS:								
13043.	4019			4887	1721DD0.	878.1	1046.	

SEMI-VOLATILE - LIQUID

	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	37.7	100.0	38.	21-100	X	
73	612	D5-PHENOL (SS#2)	27.7	100.0	28.	10- 64	X	
74	447	D5-NITROBENZENE (SS#3)	24.7	50.0	49.	38-114	X	
75	448	2-FLUOROBIPHENYL (SS#4)	25.2	50.0	50.	43-116	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	75.2	100.0	75.	10-123	X	
77	496	D14-TERPHENYL (SS#6)	43.4	50.0	87.	33-141	X	
78	471	D10-PYRENE	43.6	50.0	87.	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

5-19-88

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40DDO CNTS	___	___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1000.ML}}{\text{1000.ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURRODATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1000 UL}}{\text{1000 UL}} \times \frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

51

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Audrey

DATE ASSIGNED 5-13-86

PAGE _____ OF _____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84972	-56	URSWEST	—	BS		500ml		0.5	0.5		13	1	5/13	0.5ml of surrogate and spikes added and samples were concentrated to 0.5ml. Samples were diluted to 1000ml with distilled water. M.P.
84973			—	SS	84981	500ml		0.5	0.5		13	1	5/13	
84974			—	SS	84981	500ml		0.5	0.5		13	1	5/13	
84967			—			1000ml		1.0	1.0		13	1	5/13	
84977			—			1000ml		1.0	1.0		13	1	5/13	
84980			—			1000ml		1.0	1.0		13	1	5/13	
84981			—			1000ml		1.0	1.0		13	1	5/13	
84984			—			1000ml		1.0	1.0		13	1	5/13	
84985			—			1000ml		1.0	1.0		13	1	5/13	
84900			—			1000ml		1.0	1.0		13	1	5/13	
85040				BI		1000ml		1.0	1.0		13	1	5/13	
85041	↓	↓		B2		1000ml		1.0	1.0		13	1	5/13	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	1.0ml					
	LOT	17566					
SPIKE	NO.		3012	2001			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17777			

MANUAL COUNTER 272/967

FINAL VOLUME VERIFIED Dh

SUPERVISOR REVIEWED M.P.

EXTRACTS RECEIVED BY Maly 5-13-86

D. Dmuch 5/13/86 2P

№ 9776

Sample Number
A,A (QC) MSD

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CM0849718I9
Sample matrix: liquid
Data Release
Authorized By: _____

Case: URS west
QC Report No: _____
Contract No:
Date Sample
Received: 5-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 5-14-86
Date analyzed: 5-14-86
Conc/Dil Factor: 1.00 pH: N/A
Percent moisture (not decanted): N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
74-83-9	Bromomethane	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl Chloride	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10.	U	79-00-5	1,1,2-Trichloroethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	71-43-2	Benzene	5.0	U
67-64-1	Acetone	10.	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-4	1,1-Dichloroethene	5.0	U	75-25-2	Bromoform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	127-18-4	Tetrachloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit then report the value.

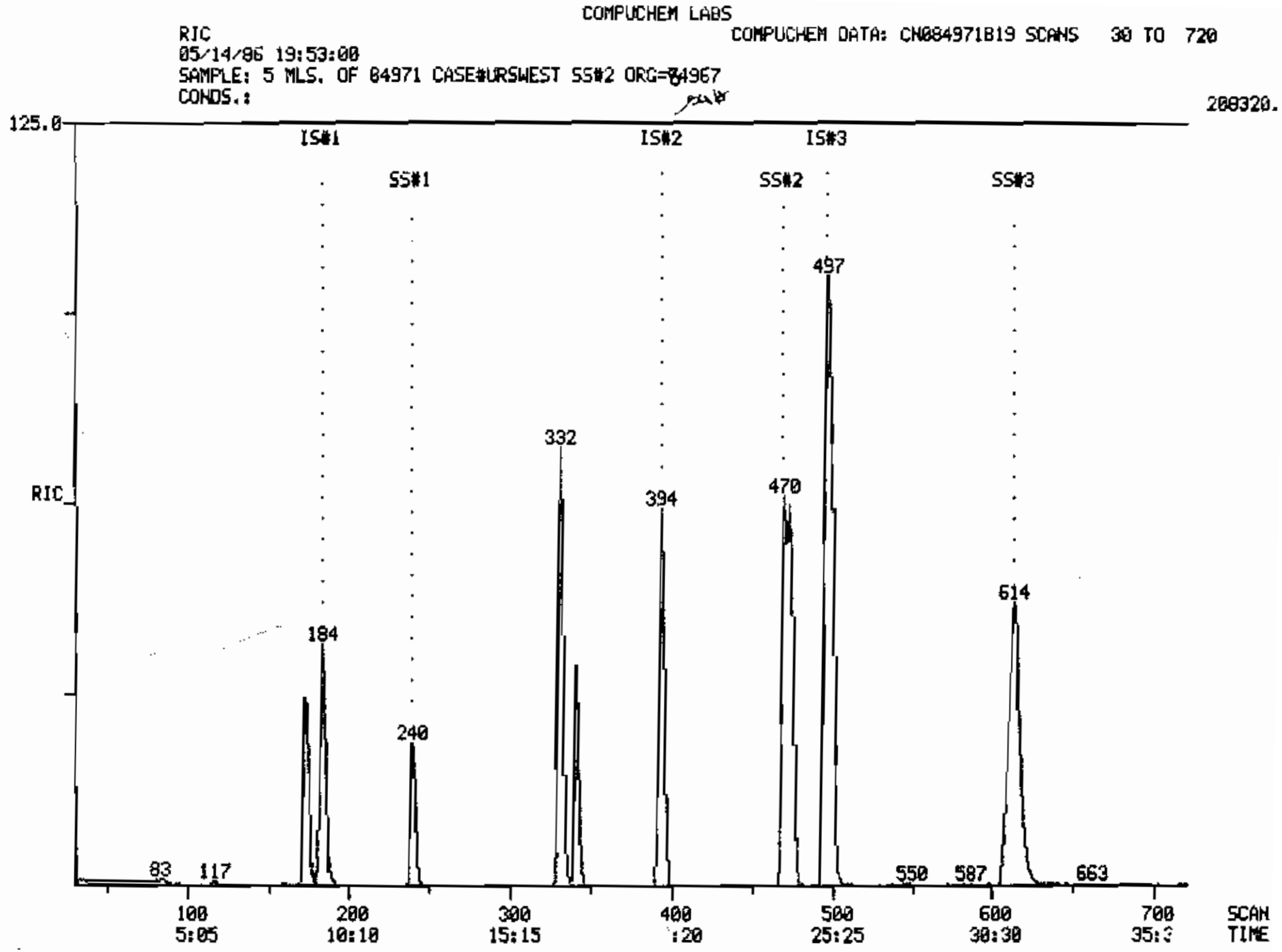
U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN084971B19 SCANS 30 TO 720
05/14/86 19:53:00
SAMPLE: 5 MLS. OF 84971 CASE#URSWEST SS#2 ORG=84967
CONDS.:
208320.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
RIC
497
332
470
394
614
184
240
83
117
550
587
663
100
5:05
200
10:10
300
15:15
400
:20
500
25:25
600
30:30
700
35:
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E237 FILENAME: CN084971B19 DATE: 05/14/86
SHIFT STD: C8860514B19 TIME: 19:53

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1	39641.	46117.	-14.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1	170677.	198683.	-14.	PASS
*270 D5-CHLOROBENZENE (IS) E3#1	164519.	189582.	-13.	PASS

QUANTITATION REPORT FILE: CN084971B19

DATA: CN084971B19.TI
05/14/86 19:53:00
\MPLE: 5 MLS. OF 84971 CASE#URSWEST 86#2 ORG=84967
.JNDS.:
SUBMITTED BY: 19 ANALYST: 941

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E1#1
2	221 CHLOROMETHANE <74-87-3> E1#2
3	220 BROMOMETHANE <78-83-9> E1#3
4	231 VINYL CHLORIDE <75-01-4> E1#4
5	209 CHLOROETHANE <75-00-3> E1#5
6	222 METHYLENE CHLORIDE <75-09-2> E1#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E1#7
8	254 CARBON DISULFIDE <75-15-0> E1#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E1#9
10	214 1,1-DICHLOROETHANE <75-34-3> E1#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E1#11
12	211 CHLOROFORM <67-66-3> E1#12
13	215 1,2-DICHLOROETHANE <107-06-2> E1#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E2#1
15	253 2-BUTANONE <78-93-3> E2#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E2#3
17	206 CARBON TETRACHLORIDE <56-23-5> E2#4
18	257 VINYL ACETATE <108-05-4> E2#5
9	212 BROMODICHLOROMETHANE <75-27-4> E2#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E2#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E2#8
22	229 TRICHLOROETHYLENE <79-01-6> E2#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E2#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E2#11
25	203 BENZENE <71-43-2> E2#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5. E2#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E2#14
28	205 BROMOFORM <75-25-2> E2#15
29	*270 D5-CHLOROBENZENE (IS) E3#1
30	256 4-METHYL-2-PENTANONE <108-10-1> E3#2
31	255 2-HEXANONE <591-78-6> E3#3
32	224 TETRACHLOROETHENE <127-18-4> E3#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E3#5
34	225 TOLUENE <108-88-3> E3#6
35	207 CHLOROBENZENE <108-90-7> E3#7
36	219 ETHYLBENZENE <100-41-4> E3#8
37	251 STYRENE <100-42-5> E3#9
38	240 M-XYLENE E3#10
39	271 O,P-XYLENE E3#11
40	#258 D4-1,2-DICHLOROETHANE E4#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E4#3
42	#233 D8-TOLUENE E4#4

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	184	9:21	1	1.000	A BB	39641.	50.000 UG/L	9.03
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	118	6:00	1	0.641	A BB	1144.	1.599	UG/L	0.29
7	43	128	6:30	1	0.696	A BB	600.	5.787	UG/L	1.05
8	76	NOT FOUND								
9	96	173	8:48	1	0.940	A BB	41656.	47.191	UG/L	8.52
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	394	20:02	14	1.000	A BB	170677.	50.000	UG/L	9.03
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	332	16:53	14	0.843	A BB	77399.	51.351	UG/L	9.27
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	342	17:23	14	0.868	A BV	97590.	50.482	UG/L	9.12
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	496	25:13	29	1.000	A BV	164519.	50.000	UG/L	9.03
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	473	24:03	29	0.954	A BB	93174.	50.943	UG/L	9.20
35	112	498	25:19	29	1.004	A BB	158912.	54.010	UG/L	9.75
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	240	12:12	1	1.304	A BV	51370.	44.222	UG/L	7.99
41	95	614	31:13	29	1.238	A BB	142636.	49.094	UG/L	8.87
42	98	469	23:50	1	2.549	A BB	147700.	49.040	UG/L	8.86

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:21	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.971	
3	2:23		10.000			50.00		1.729	
4	3:03		10.000			50.00		1.079	
5	3:52		10.000			50.00		0.582	
6	5:57	1.01	5.000	0.13	1.60	50.00	0.029	0.902	0.03
7	6:30	1.00	10.000	0.07	5.79	50.00	0.015	0.131	0.12
8	7:31		5.000			50.00		1.826	
9	8:51	0.99	5.000	0.19	47.19	50.00	1.051	1.113	0.94
10	10:13		5.000			50.00		1.290	
11	10:56		5.000			50.00		1.107	
12	11:35		5.000			50.00		2.374	
13	12:21		5.000			50.00		1.434	
14	20:02	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:12		10.000			50.00		0.012	
16	13:43		5.000			50.00		0.528	
7	14:08		5.000			50.00		0.637	
18	14:14		10.000			50.00		0.156	
19	14:41		5.000			50.00		0.518	
20	16:04		5.000			50.00		0.226	
21	16:19		5.000			50.00		0.323	
22	16:53	1.00	5.000	0.17	51.35	50.00	0.453	0.442	1.03
23	17:35		5.000			50.00		0.535	
24	17:41		5.000			50.00		0.306	
25	17:23	1.00	5.000	0.17	50.48	50.00	0.572	0.566	1.01
26	17:41		5.000			50.00		0.228	
27	18:45		10.000			50.00		0.104	
28	20:26		5.000			50.00		0.335	
29	25:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	20:50		10.000			50.00		0.142	
31	22:25		10.000			50.00		0.091	
32	22:46		5.000			50.00		0.468	
33	22:49		5.000			50.00		0.422	
34	24:06	1.00	5.000	0.19	50.94	50.00	0.566	0.556	1.02
35	25:22	1.00	5.000	0.20	54.01	50.00	0.966	0.894	1.08
36	27:51		5.000			50.00		0.452	
37	33:12		5.000			50.00		0.908	
38	33:36		5.000			50.00		0.597	
39	34:58		5.000			100.00		0.576	
40	12:15	1.00	10.000	0.13	44.22	50.00	1.296	1.465	0.88
41	31:16	1.00	10.000	0.12	49.09	50.00	0.867	0.883	0.98
42	23:53	1.00	10.000	0.25	49.04	50.00	3.726	3.799	0.98

LAB INSTRUCTIONS:

CASE#: URS WEST DUE DATE: 6/10/86

VOA J1[ ] J3[ ] D[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 84971
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID

QC

Sample Prep Code---000
Instrument Code----256
Compound List------145
Surrogate Std------394
Internal Std-------036

SAMPLE ID: SS 291/539

GC/MS ANALYSIS

Amount Purged: [ ] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860514B19 Disk (3017)
Blank Filename CBX60514B19 Disk ( )
Standard Filename CS860514B19 Disk ( )
Sample Filename CN084971B19 Disk ( )

nas = 84967

ANALYST(S): Injection 941 Work-up_____

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes DK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UF,BB,OT,VC,FO,SM

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reinject Neat

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review [signature] Date 5/15/86 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN084971D19 /

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC386 (11/84)

[signature]

COMPUCHEM # 084971 FILE: CN084971819 COMPOUND LIST 145 PAGE 1
VOLATILE - MEDIUM OR LOW LEVEL LIQUID

IP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS) <75	184	39600.	50.0		
221	50		CHLOROMETHANE <74-87-3> E1#				BDL	10.
220	94		BROMOMETHANE <78-83-9> E1#3				BDL	10.
231	62		VINYL CHLORIDE <75-01-4> E1				BDL	10.
209	64		CHLORDETHANE <75-00-3> E1#5				BDL	10.
222	84		METHYLENE CHLORIDE <75-09-2			1.6	JBK	5.
252	43		ACETONE (2-PROPANONE) <67-6			5.8	JBK	10.
254	76		CARBON DISULFIDE <75-15-0>				BDL	5.
216	96		1,1-DICHLOROETHYLENE <75-35			47.2	47.	5.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	5.
226	96		TRANS-1,2-DICHLORDETHYLENE				BDL	5.
211	83		CHLOROFORM <67-66-3> E1#12				BDL	5.
215	62		1,2-DICHLORDETHANE <107-06-				BDL	5.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	394	171000.	50.0		
253	72		2-BUTANONE <78-93-3> E2#2				BDL	10.
227	97		1,1,1-TRICHLORDETHANE <71-5				BDL	5.
206	117		CARBON TETRACHLORIDE <56-23				BDL	5.
257	43		VINYL ACETATE <108-05-4> E2				BDL	10.
212	83		BROMODICHLOROMETHANE <75-27				BDL	5.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	5.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	5.
229	130		TRICHLORDETHYLENE <79-01-6>			51.4	51.	5.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	5.
8	97		1,1,2-TRICHLORDETHANE <79-0				BDL	5.
203	78		BENZENE <71-43-2> E2#12			50.5	50.	5.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	5.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	10.
205	173		BROMOFORM <75-25-2> E2#15				BDL	5.
270	117	I	D5-CHLOROBENZENE (IS) E3#1	496	164000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	10.
255	43		2-HEXANONE <591-78-6> E3#3				BDL	10.
224	164		TETRACHLORDETHENE <127-18-4				BDL	5.
223	83		1,1,2,2-TETRACHLORDETHANE <				BDL	5.
225	92		TOLUENE <108-88-3> E3#6			50.9	51.	5.
207	112		CHLORDBENZENE <108-90-7> E3			54.0	54.	5.
219	106		ETHYLBENZENE <100-41-4> E3#				BDL	5.
251	104		STYRENE <100-42-5> E3#9				BDL	5.
240	106		M-XYLENE E3#10				BDL	5.
271	106		O,P-XYLENE E3#11				BDL	5.
258	65	S	D4-1,2-DICHLOROETHANE E4#2			44.2	88.%	
247	95	S	BROMOFLUOROBENZENE <460-00-			49.1	98.%	
233	98	S	D8-TOLUENE E4#4			49.0	98.%	
CHECKSUMS:								
3044.		1252		1074	374600.	553.7	537.	

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E4#2	44.2	50.0	88.	76-114	X	
41	247	BROMOFLUOROBENZENE <460-00-	49.1	50.0	98.	86-115	X	
42	233	D8-TOLUENE E4#4	49.0	50.0	98.	88-110	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS ✓ ___

CORRECTION FACTOR CALCULATION:

$$\frac{5000\ \text{UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000\ \text{UL}}{5000.\ (\text{UL})} = 1.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

Sample Number
D MSD

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Compuchem
Lab Sample ID No: 8606497-4A16
Sample matrix: liquid
Data Release
Authorized By: _____

Case: ORS West
GC Report No: _____
Contract No: Platinum
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: Low
Date extracted/prepared: N/A
Date analyzed: N/A
Conc/Dil Factor: 1.00 pH:
Percent moisture (not decanted): N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
74-83-9	Bromomethane	10.	U	79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl Chloride	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10.	U	79-00-5	1,1,2-Trichloroethane	5.0	U
75-09-2	Methylene Chloride	5.0	U	71-43-2	Benzene	5.0	U
67-64-1	Acetone	10.	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-4	1,1-Dichloroethene	5.0	U	75-25-2	Bromoform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	127-18-4	Tetrachloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
Case :

Sample Number
D M50

Organics Analysis Data Sheet
(Page 2)

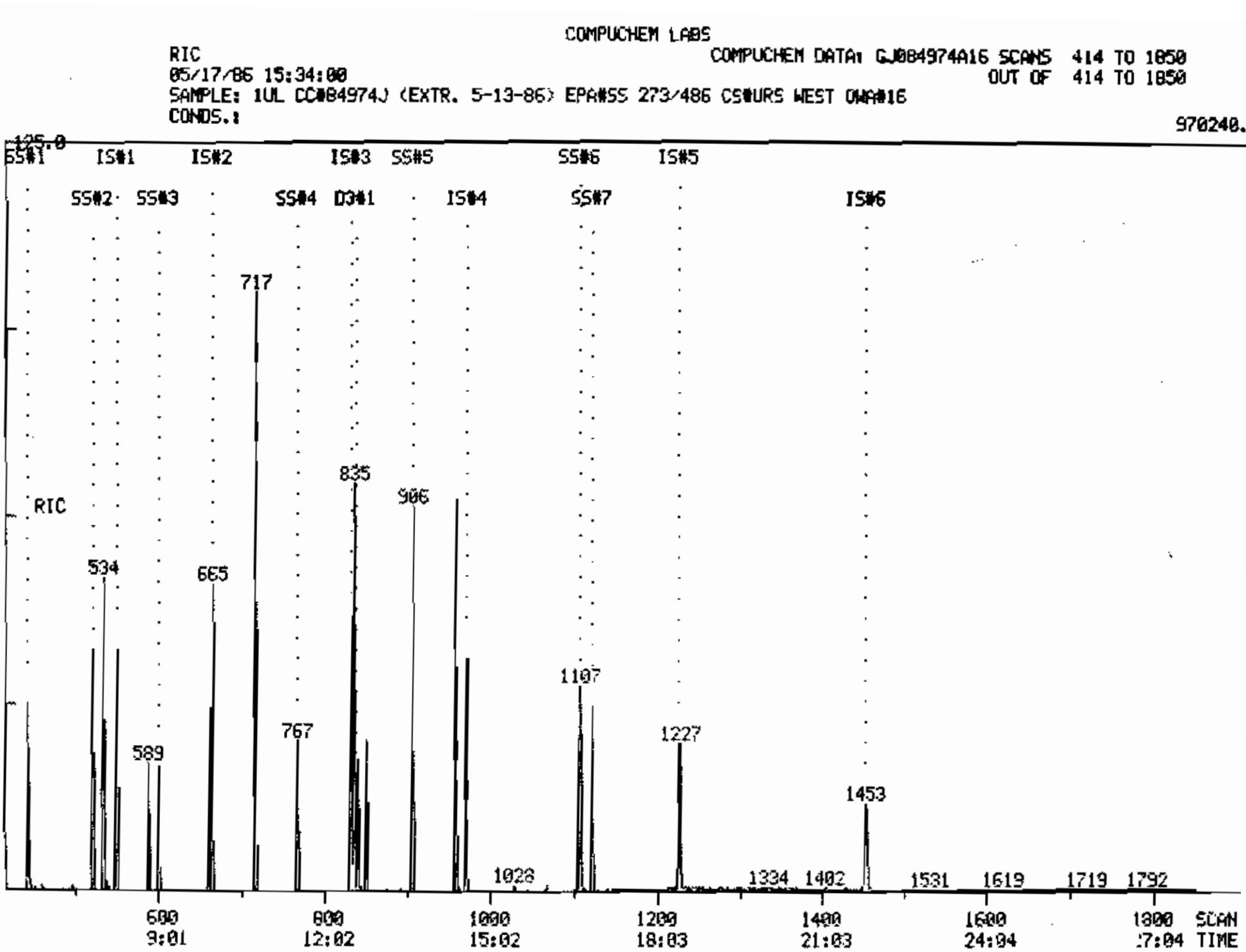
Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-17-86
Conc/Dil Factor: 2.00
Percent moisture (decanted): N/A

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/l		CAS Number		ug/l	
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20.	U	132-64-9	Dibenzofuran	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	84-66-2	Diethylphthalate	20.	U
95-48-7	2-Methylphenol	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	86-73-7	Fluorene	20.	U
106-44-5	4-Methylphenol	20.	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
67-72-1	Hexachloroethane	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
98-95-3	Nitrobenzene	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
78-59-1	Isophorone	20.	U	118-74-1	Hexachlorobenzene	20.	U
88-75-5	2-Nitrophenol	20.	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20.	U	85-01-8	Phenanthrene	20.	U
65-85-0	Benzoic Acid	100	U	120-12-7	Anthracene	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	84-74-2	Di-n-butylphthalate	2.2	J
120-83-2	2,4-Dichlorophenol	20.	U	206-44-0	Fluoranthene	20.	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U
99-09-2	3-Nitroaniline	100	U				

(1) Cannot be separated from diphenylamine


COMPUCHEM LABS
RIC
05/17/86 15:34:00
COMPUCHEM DATA: GJ084974A16 SCANS 414 TO 1850
OUT OF 414 TO 1850
SAMPLE: 1UL CC#84974J (EXTR. 5-13-86) EPA#55 273/486 CS#URS WEST ONA#16
CONDS.:
970240.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
RIC
717
835
906
534
665
589
767
1107
1227
1453
1028
1334
1402
1531
1619
1719
1792
600
9:01
800
12:02
1000
15:02
1200
18:03
1400
21:03
1600
24:04
1800
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

THOD: SEMI2 FILENAME: GJ084974A16 DATE: 05/17/86
SHIFT STD: HH860517A16 TIME: 15:34

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	67312.	72972.	-8.	PASS
*460 D8-NAPHTHALENE (IS#2)	247352.	246004.	1.	PASS
*495 D10-ACENAPHTHENE (IS#3)	132444.	125016.	6.	PASS
*467 D10-PHENANTHRENE (IS#4)	184080.	198984.	-7.	PASS
*459 D12-CHRYSENE (IS#5)	145072.	168056.	-14.	PASS
*497 D12-PERYLENE (IS#6)	144608.	168340.	-14.	PASS

SMangi
5-19-86

```
QUANTITATION REPORT    FILE: GJ084974A16

  DATA: GJ084974A16.TI
05/17/86 15:34:00
SAMPLE: 1UL CC#84974J (EXTR. 5-13-86) EPA#SS 273/486 CS#URS WEST OWA#16
CONDS. :
SUBMITTED BY: 16            ANALYST: 876

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM  LIBRARY ENTRY

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  610 PHENOL (Q1#3) <108-95-2>
  3  411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
  4  601 2-CHLOROPHENOL (Q1#6) <95-57-8>
  5  421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
  6  422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
  7  474 BENZYL ALCOHOL (Q1#9) <100-51-6>
  8  420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
  9  620 2-METHYLPHENOL (Q1#11) <95-48-7>
 10  412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
 11  622 4-METHYLPHENOL (Q1#13) <106-44-5>
 12  442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
 13  436 HEXACHLOROETHANE (Q1#15) <67-72-1>
 14  440 NITROBENZENE (Q1#16) <98-95-3>
 15  *460 D8-NAPHTHALENE (IS#2)
  ?  438 ISOPHORONE (Q2#2) <78-59-1>
  /  606 2-NITROPHENOL (Q2#3) <88-75-5>
 18  603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
 19  625 BENZOIC ACID (Q2#5) <65-85-0>
 20  410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
 21  602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
 22  446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
 23  439 NAPHTHALENE (Q2#9) <91-20-3>
 24  475 4-CHLOROANILINE (Q2#10) <106-47-8>
 25  434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
 26  608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
 27  477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
 28  *495 D10-ACENAPHTHENE (IS#3)
 29  435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
 30  611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
 31  626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
 32  416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
 33  478 2-NITROANILINE (Q3#6) <88-74-4>
 34  425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
 35  402 ACENAPHTHYLENE (Q3#8) <208-96-8>
 36  479 3-NITROANILINE (Q3#9) <99-09-2>
 37  401 ACENAPMTHENE (Q3#10) <83-32-9>
 38  @605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
 39  607 4-NITROPHENOL (Q3#12) <100-02-7>
 40  476 DIBENZOFURAN (Q3#13) <132-64-9>
 41  427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
  !  428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
 43  424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
 44  417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
 45  432 FLUORENE (Q3#18) <86-73-7>
 46  480 4-NITROANILINE (Q3#19) <100-01-6>
```

NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
53	444 PHENANTHRENE (Q4#7) <85-01-8>
54	403 ANTHRACENE (Q4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
56	431 FLUORANTHENE (Q4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (Q5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
63	418 CHRYSENE (Q5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
68	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
2	#619 2-FLUOROPHENOL (SS#1)
3	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4 TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TDT	
1	152	550	8:16	1	1.000	A BB	67312.	40.000	NG	4.01	
2	94	522	7:51	1	0.949	A BV	99640.	30.547	NG	3.06	Yes
3	93	NOT FOUND									
4	128	534	8:02	1	0.971	A BB	160612.	76.266	NG	7.65	Yes
5	146	551	8:17	1	1.002	A BB	59844.	22.638	NG	2.27	NO
6	146	551	8:17	1	1.002	A BB	59844.	20.953	NG	2.10	Yes
7	108	NOT FOUND									
8	146	NOT FOUND									
9	108	NOT FOUND									
10	45	NOT FOUND									
11	108	NOT FOUND									
12	70	589	8:52	1	1.071	A BB	48680.	22.595	NG	2.27	Yes
13	117	NOT FOUND									
14	77	NOT FOUND									
15	136	665	10:00	15	1.000	A BB	247352.	40.000	NG	4.01	
16	82	NOT FOUND									
17	139	NOT FOUND									
18	122	NOT FOUND									
19	122	NOT FOUND									
20	93	NOT FOUND									
21	162	NOT FOUND									

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT	
2	180	661	9:57	15	0.994	A BB	52760.	21.645	NG	2.17	Yes
23	128	NOT FOUND									
24	127	NOT FOUND									
25	225	NOT FOUND									
26	107	717	10:47	15	1.078	A BB	208500.	89.668	NG	8.99	Yes
27	142	NOT FOUND									
28	164	832	12:31	28	1.000	A BB	132444.	40.000	NG	4.01	
29	237	NOT FOUND									
30	196	NOT FOUND									
31	196	NOT FOUND									
32	162	NOT FOUND									
33	65	NOT FOUND									
34	163	NOT FOUND									
35	152	NOT FOUND									
36	138	NOT FOUND									
37	153	835	12:34	28	1.004	A BB	92588.	22.355	NG	2.24	Yes
38	184	NOT FOUND									
39	139	841	12:39	28	1.011	A BB	33700.	41.808	NG	4.19	Yes
40	168	NOT FOUND									
41	89	851	12:48	28	1.023	A BB	38592.	18.992	NG	1.90	Yes
42	165	NOT FOUND									
43	149	NOT FOUND									
44	204	NOT FOUND									
45	166	NOT FOUND									
46	138	NOT FOUND									
47	188	971	14:36	47	1.000	A BV	184080.	40.000	NG	4.01	
3	198	NOT FOUND									
49	169	NOT FOUND									
50	248	NOT FOUND									
51	284	NOT FOUND									
52	266	958	14:25	47	0.987	A BB	73168.	84.784	NG	8.50	YES
53	178	NOT FOUND									
54	178	NOT FOUND									
55	149	1028	15:28	47	1.059	A BB	9368.	1.091	NG	0.11	Yes
56	202	NOT FOUND									
57	240	1226	18:26	57	1.000	A BB	145072.	40.000	NG	4.01	
58	202	1107	16:39	57	0.903	A BB	171908.	32.583	NG	3.27	Yes
59	149	NOT FOUND									
60	252	NOT FOUND									
61	228	NOT FOUND									
62	149	NOT FOUND									
63	228	NOT FOUND									
64	264	1453	21:51	64	1.000	A BV	144608.	40.000	NG	4.01	
65	149	NOT FOUND									
66	252	NOT FOUND									
67	252	NOT FOUND									
68	252	NOT FOUND									
69	276	NOT FOUND									
70	278	NOT FOUND									
71	276	NOT FOUND									
72	112	443	6:40	1	0.805	A BV	92480.	44.342	NG	4.45	
7	99	521	7:50	1	0.947	A BB	80864.	31.154	NG	3.12	
4	82	600	9:01	15	0.902	A DV	72232.	22.864	NG	2.29	
75	172	767	11:32	28	0.922	A BB	108624.	25.002	NG	2.51	
76	141	906	13:38	28	1.089	A BB	42736.	86.624	NG	8.69	
77	244	1121	16:52	57	0.914	A BB	103564.	29.056	NG	2.91	

'D	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
.8	212	1106	16:38	57	0.902	A BB	143880.	32.249 NG	3.23
79	216	NOT FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	8:16	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	7:51	1.00	10.000	0.09	30.55	50.00	1.184	1.938	0.61
3	7:57		10.000			50.00		1.379	
4	8:02	1.00	10.000	0.10	76.27	50.00	1.909	1.251	1.53
5	8:14	1.01	10.000	0.10	22.64	50.00	0.711	1.571	0.45
6	8:17	1.00	10.000	0.10	20.95	50.00	0.711	1.697	0.42
7	8:28		10.000			50.00		0.785	
8	8:33		10.000			50.00		1.539	
9	8:39		10.000			50.00		1.039	
10	8:42		10.000			50.00		2.015	
11	8:50		10.000			50.00		1.349	
12	8:52	1.00	10.000	0.11	22.60	50.00	0.579	1.280	0.45
13	8:58		10.000			50.00		0.856	
14	9:03		10.000			50.00		1.770	
15	10:00	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	9:22		10.000			50.00		0.943	
17	9:29		10.000			50.00		0.199	
18	9:32		10.000			50.00		0.332	
19	9:39		50.000			50.00		0.181	
20	9:40		10.000			50.00		0.411	
21	9:48		10.000			50.00		0.307	
2	9:57	1.00	10.000	0.10	21.64	50.00	0.171	0.394	0.43
23	10:02		10.000			50.00		1.037	
24	10:06		10.000			50.00		0.481	
25	10:17		10.000			50.00		0.212	
26	10:46	1.00	10.000	0.11	89.67	50.00	0.674	0.376	1.79
27	11:00		10.000			50.00		0.627	
28	12:29	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	11:20		10.000			50.00		0.497	
30	11:25		10.000			50.00		0.491	
31	11:28		50.000			50.00		0.535	
32	11:40		10.000			50.00		1.270	
33	11:50		50.000			50.00		0.525	
34	12:08		10.000			50.00		1.558	
35	12:16		10.000			50.00		1.889	
36	11:50		50.000			50.00		0.430	
37	12:32	1.00	10.000	0.10	22.35	50.00	0.559	1.251	0.45
38	12:34		50.000			50.00		0.139	
39	12:38	1.00	50.000	0.02	41.81	50.00	0.204	0.243	0.84
40	12:45		10.000			50.00		1.703	
41	12:46	1.00	10.000	0.10	18.99	50.00	0.233	0.614	0.38
42	12:14		10.000			50.00		0.338	
43	13:08		10.000			50.00		1.627	
44	13:13		10.000			50.00		0.643	
45	13:14		10.000			50.00		1.331	
46	13:16		50.000			50.00		0.339	
47	14:33	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
3	13:20		50.000			50.00		0.123	
49	13:23		10.000			50.00		0.583	
50	13:55		10.000			50.00		0.306	
51	14:07		10.000			50.00		0.434	
52	14:22	1.00	50.000	0.02	94.78	50.00	0.318	0.188	1.70

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
3	14:34		10.000			50.00		1.404	
54	14:39		10.000			50.00		1.314	
55	15:24	1.00	10.000	0.11	1.09	50.00	0.041	1.865	0.02
56	16:16		10.000			50.00		1.269	
57	18:20	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	16:34	1.00	10.000	0.09	32.58	50.00	0.948	1.455	0.65
59	17:30		10.000			50.00		0.935	
60	18:15		20.000			50.00		0.469	
61	18:18		10.000			50.00		1.298	
62	18:22		10.000			50.00		1.327	
63	18:23		10.000			50.00		1.164	
64	21:40	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	19:33		10.000			50.00		2.165	
66	20:36		10.000			50.00		1.318	
67	20:40		10.000			50.00		0.964	
68	21:30		10.000			50.00		1.079	
69	25:46		10.000			50.00		1.300	
70	25:52		10.000			50.00		1.057	
71	27:02		10.000			50.00		1.068	
72	6:41	1.00	0.742	1.09	44.34	50.00	1.099	1.239	0.89
73	7:50	1.00	0.948	1.00	31.15	50.00	0.961	1.542	0.62
74	9:01	1.00	0.875	1.03	22.86	50.00	0.234	0.511	0.46
75	11:31	1.00	0.906	1.02	25.00	50.00	0.656	1.312	0.50
76	13:36	1.00	1.118	0.97	86.62	50.00	0.258	0.149	1.73
77	16:47	1.00	0.907	1.01	29.06	50.00	0.571	0.983	0.58
78	16:34	1.00	10.000	0.09	32.25	50.00	0.793	1.230	0.64
?	11:41		10.000			50.00		0.353	

CASE#: DUE DATE:

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 84974J

J1[X] R1[ ] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 869

QC

Sample Prep Code---856
Instrument Code---284
Compound List---170
Surrogate Std---392
Internal Std---035 (added by GC/MS)

BAS: EPA#: SS 273/486

GC/MS ANALYSIS

Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 50 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 5/13/86
DFTPP Filename DH860519A16 Disk (3032)
Standard Filename HH860519A16 Disk (")
Sample Filename GJ#84974A16 Disk (")

ANALYST(S): Injection 876 Work-up 876

GC/MS REVIEW

CONDITION CODE: JA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,WL,HH,YL,SL,BH,BM,YH

Non-Entry Codes IR,IL,IH,BV,CT,CS,PC,OT,HS
ED,IF,LA,DI,CO,RH,DV,DA

Disposition: [X] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required 0

COMMENTS: pk 80 5/19

GC/MS Review [signature] Date 5/19/86 Auditor [signature] Date 5/12/86

REPORT INTEGRATION Total # of Injections: 2
Final Reportable Package(s): GJ#84974A16 /

QA COMMENTS:

Initials _____ Date __/__/__

FINAL REVIEW: Initials _____ Date __/__/__

[signature]

EPAUATER (11/84)

COMPUCHEM # 084974 FILE: GJ084974A16 COMPOUND LIST 170 PAGE 1
SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	550	67300.	40.0		
610	94		PHENOL (Q1#3) <108-95-2>			30.5	61.	20.
411	93		BIS(2-CHLOROETHYL)ETHER (Q1				BDL	20.
601	128		2-CHLOROPHENOL (Q1#6) <95-5			76.3	150.	20.
421	146		1,3-DICHLOROBENZENE (Q1#7)			~~22.6~~	~~45.~~ BDL	20.
422	146		1,4-DICHLOROBENZENE (Q1#8)			21.0	42.	20.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	20.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	20.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE			22.6	45.	20.
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	20.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	20.
460	136	I	D8-NAPHTHALENE (IS#2)	665	247000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	20.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
2	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	20.
.6	180		1,2,4-TRICHLOROBENZENE (Q2#			21.6	43.	20.
439	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	20.
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	20.
608	107		P-CHLORO-M-CRESOL (Q2#12) <			89.7	180.	20.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	20.
493	164	I	D10-ACENAPHTHENE (IS#3)	832	132000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	100.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	20.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	20.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (Q3#10) <83-32			22.4	45.	20.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	100.
607	139		4-NITROPHENOL (Q3#12) <100-			41.8	J	100.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (Q3#14)			19.0	38.	20.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	20.
490	138		4-NITROANILINE (Q3#19) <100				BDL	100.
7	188	I	D10-PHENANTHRENE (IS#4)	971	184000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (Q4#6) <8			84.8	170.	100.

SEMI-VOLATILE - LIQUID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
426	149		DI-N-BUTYL PHTHALATE (G4#9)			*1.1	J	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20.
459	240	I	012-CHRYSENE (IS#5)	1226	145000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>			32.6	65.	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1453	145000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			44.3	44.%	
612	99	S	D5-PHENOL (SS#2)			31.2	31.%	
447	82	S	D5-NITROBENZENE (SS#3)			22.9	46.%	
3	172	S	2-FLUOROBIPHENYL (SS#4)			25.0	50.%	
.8	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			86.6	87.%	
496	244	S	D14-TERPHENYL (SS#6)			29.0	58.%	
471	212	S	D10-PYRENE			32.2	64.%	
456	216		1,2,3,4 TETRACHLOROBENZENE				BDL	20.
CHECKSUMS:								
13058.	4075			5697	920300.	997.2	1264.	

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	44.3	100.0	44.	21-100	X	
73	612	D5-PHENOL (SS#2)	31.2	100.0	31.	10- 84	X	
74	447	D5-NITROBENZENE (SS#3)	22.9	50.0	46.	38-114	X	
75	448	2-FLUOROBIPHENYL (SS#4)	25.0	50.0	50.	43-116	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	86.6	100.0	87.	10-123	X	
77	496	D14-TERPHENYL (SS#6)	29.0	50.0	58.	33-141	X	
78	471	D10-PYRENE	32.2	50.0	64.	33-128*	X	

8Maup 5/4/86

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	___	___

CORRECTION FACTOR CALCULATION:

FINAL EXTRACT VOLUME (ML) / .0ML FOR ACID & 1.0ML FOR BN X 1000 ML / VOL SAMPLE EXTRACTED (ML) X DILUTION FACTOR X 2 =

0.5ML / 1.0ML & 1.0ML X 1000. ML / 500. ML X 1.0 X 2 = 2.000 ✓

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

1000 UL / AMOUNT SURROGATE ADDED (UL) X FINAL EXTRACT VOL (ML) / 1.0ML FOR ACID & 1.0ML FOR BN X GCMS DILUTION FACTOR X 2 =

1000 UL / 500 UL X 0.5ML / 1.0ML & 1.0ML X 1.0 X 2 = 2.000

S1

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Audrey (AM)

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84972	-56	URSWEST	—	BS		500ml		0.5	0.5		13	1	5/13	0.5ml of surrogate and spikes added and samples were concentrated to 0.5ml. Samples were diluted to 1000ml with distilled water. M.P.
84973			—	SS	84981	500ml		0.5	0.5		13	1	5/13	
84974			—	SS	84981	500ml		0.5	0.5		13	1	5/13	
84967			—			1000ml		1.0	1.0		13	1	5/13	
84977			—			1000ml		1.0	1.0		13	1	5/13	
84980			—			1000ml		1.0	1.0		13	1	5/13	
84981			—			1000ml		1.0	1.0		13	1	5/13	
84984			—			1000ml		1.0	1.0		13	1	5/13	
84985			—			1000ml		1.0	1.0		13	1	5/13	
84900			—			1000ml		1.0	1.0		13	1	5/13	
85040				BI		1000ml		1.0	1.0		13	1	5/13	
85041	↓	↓		B2		1000ml		1.0	1.0		13	1	5/13	

		B-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	1.0ml					
	LOT	1756					
SPIKE	NO.		3012	2001			
	AMT.		1.0ml	1.0ml			
	LOT		1764	1777			

MANUAL COUNTER 272/967

FINAL VOLUME VERIFIED AM

SUPERVISOR REVIEWED M.P.

EXTRACTS RECEIVED BY MAG 5-13-86

Q mixed 5/13/86 2A

№ 9776